

# TOSHIBA

## OWNER'S MANUAL

### Color Television

16:9  
WIDE COLORSTREAM™

# CW34X92 CW34XC2

#### Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:

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Using the TV's  
Features

Setting up  
your TV

Using the  
Remote Control

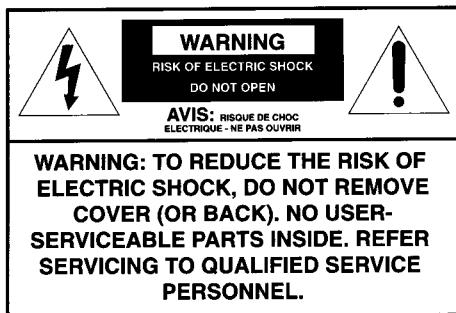
Connecting  
your TV

Introduction

# Important Information

## WARNING

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,  
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR  
MOISTURE.**



The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. **DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.**



The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.

## CAUTION

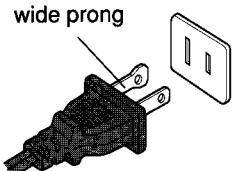
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLET UNLESS THE PRONGS CAN BE FULLY INSERTED INTO THE OUTLET TO PREVENT ANY EXPOSURE OF THE PRONGS ON THE POLARIZED PLUG.

## ATTENTION

POUR PRÉVENIR LES CHOCS ÉLECTRIQUES NE PAS UTILISER CETTE FICHE POLARISÉE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ÊTRE INSÉRÉS À FOND SANS EN LAISSER AUCUNE PARTIE À DÉCOUVERT.

## CAUTION

The plug has one prong wider than the other and will fit only one way into a standard electrical outlet (120 volt AC, 60 Hz). If the plug does not fit into the outlet, try turning it around. If the plug still does not fit, the outlet is probably non-standard and must be replaced by a qualified electrician. Do not tamper with the plug or try to force it into a non-standard outlet.



## *Note to CATV system installers in the USA*

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding, and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

## Precautions

### Installing your TV

- Place the TV on the floor or on a sturdy platform. The mounting surface should be flat and steady. If you install the TV on a soft floor, make sure that the floor is not damaged by the weight of the TV.
- Place the TV far enough away from the walls to allow proper ventilation. This will prevent the TV from overheating and avoid possible damage to the TV. Avoid dusty places too.

### Using your TV

- Do not stand or climb on the TV.
- Do not put any heavy object on top of the TV.
- Do not place containers with liquids such as drinks or cosmetics on the TV. If any foreign material or water leaks into the TV, unplug the AC cord and contact your dealer.
- Avoid displaying stationary images on your TV screen for extended periods of time. Stationary patterns generated by a Double-Window display, computer displays, video games, stock market reports, etc., can become permanently engrained on the picture tube. This damage is not protected by your warranty because it is the result of misuse. If you wish to use your TV to display still images, reduce brightness and contrast settings. Never leave a Double-Window, computer, or video game display unattended.

### Cleaning your TV

- To clean the TV screen:
  1. First remove the plug from the power outlet to avoid possible shock hazard.
  2. Use a clean cellulose sponge or chamois cloth dampened with a solution of mild detergent and warm water to clean TV screen and trim. Do not use too much water on the TV screen. Water spills into the cabinet and may cause damage to the TV. Avoid excess water.
  3. Remove any extra moisture with the same cloth or a dry one.
- To maintain the finish and appearance of the cabinet, polish it from time to time with a quality furniture polish.

## CAUTION

Never use strong solvents such as thinner, benzene or other chemicals on or near cabinet, as they might damage the finish of the cabinet.

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## Introduction

## Welcome to Toshiba

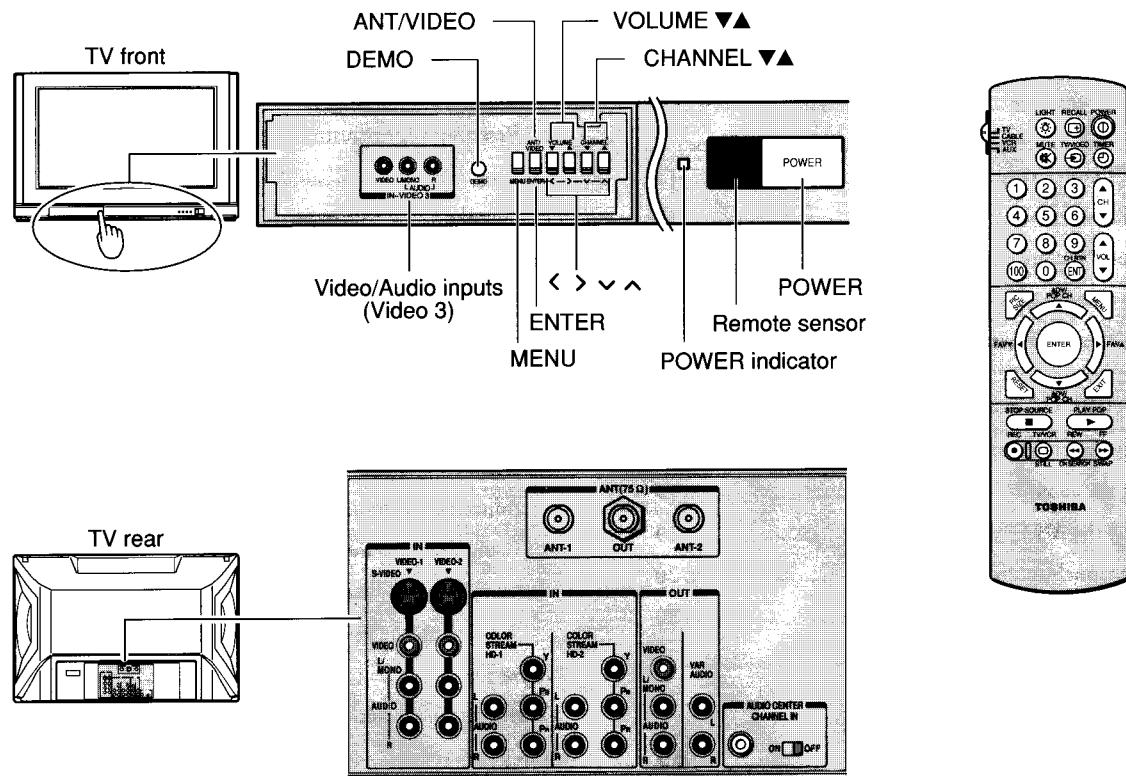
Congratulations! You have purchased one of the finest TV's on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible.

Instructions in this manual are based on using the remote control. You can also use the controls on the TV if they have the same name as those on the remote control.

Please read all the safety and operating instructions carefully, and keep the manual for future reference.

## Exploring your new TV

You can operate your TV by using the buttons on the front panel or the remote control. The back panel and front panel (behind the door) provide all the terminal connections you will need to connect other equipment to your TV.



## Connecting your TV

If you haven't connected electronic equipment before, or you have been frustrated in the past, you may wish to read this section. (Cables are not supplied.)

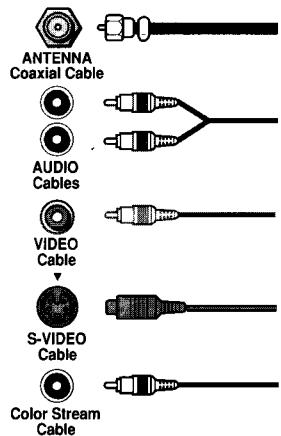
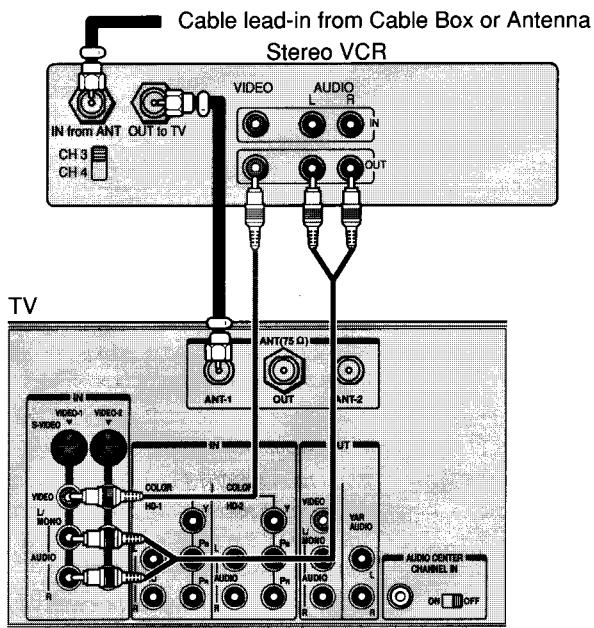
- A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use "F" connectors.
- Audio and video cables are usually color coded according to use: yellow for video and red and white for audio. The red audio cable is for the stereo right channel, and the white audio cable is for the stereo (or mono) left channel. If you look at the rear panel of the TV, you will see that the terminals are color coded in the same manner as the cables.
- S-video cables provide better picture performance. S-video cables can only be used with S-video compatible components.
- ColorStream™ cables come in sets of three and provide the best picture performance. ColorStream cables can only be used with ColorStream compatible components.

## Connecting a VCR

This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and to record from one channel while watching another channel.

You will need:

- one coaxial cable
- one pair of audio cables (only one cable for a mono VCR)
- one video cable



***Caution:***

*Do not plug the TV in until you have finished connecting all of your equipment.*

***Caution:***

*If using a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.*

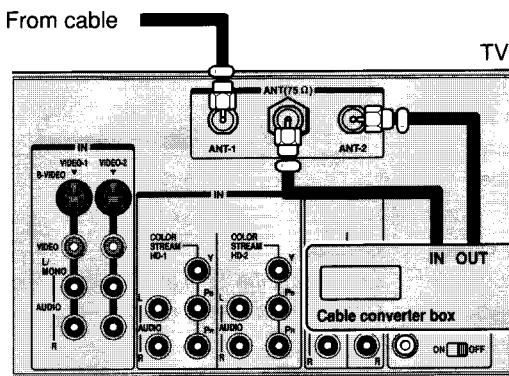
*If you have a S-VHS VCR, use the S-video connections and remove the video cable.*

*Do not connect the video cable and the S-video cable to Video-1 simultaneously.*

## Connecting a cable converter box

This connection allows you to watch cable and premium channels. You should keep your TV selected to ANT-1 so that you can use the TV features. When viewing premium channels, select ANT-2 and tune the TV to channel 3 or 4 (whichever channel is vacant in your area), then use the converter box to change channels.

You will need two coaxial cables.



### Note:

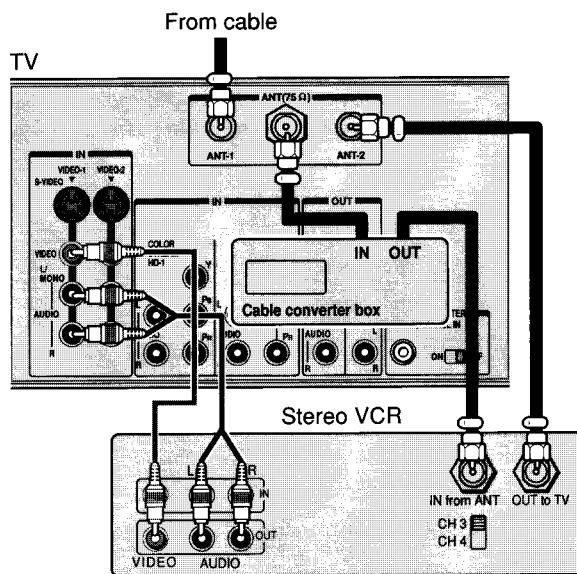
*When you use a converter box with your TV, there may be features that you can not program using the remote control, such as programming your favorite channels, labeling channels, and blocking channels.*

## Connecting a cable converter box and a VCR

This connection allows you to watch and record basic and premium cable channels, as well as watch videotapes. You should keep your TV selected to ANT-1 so that you can use the TV's features. When viewing premium channels or recording with the VCR, select ANT-2 and change the TV channel to 3 or 4 (whichever channel is vacant in your area), then use the converter box to change channels.

You will need:

- three coaxial cables
- one pair of audio cables (only one cable for a mono VCR)
- one video cable



### Caution:

*If you want to record one channel while watching another channel, a splitter (not included) must be added between the cable and ANT-1. One output of the splitter goes to ANT-1 and the second output is connected to IN on the cable converter box.*

*If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.*

*If you have a S-VHS VCR, use the S-video connections and remove the video cable. Do not connect the video cable and the S-video cable to Video-1 simultaneously.*

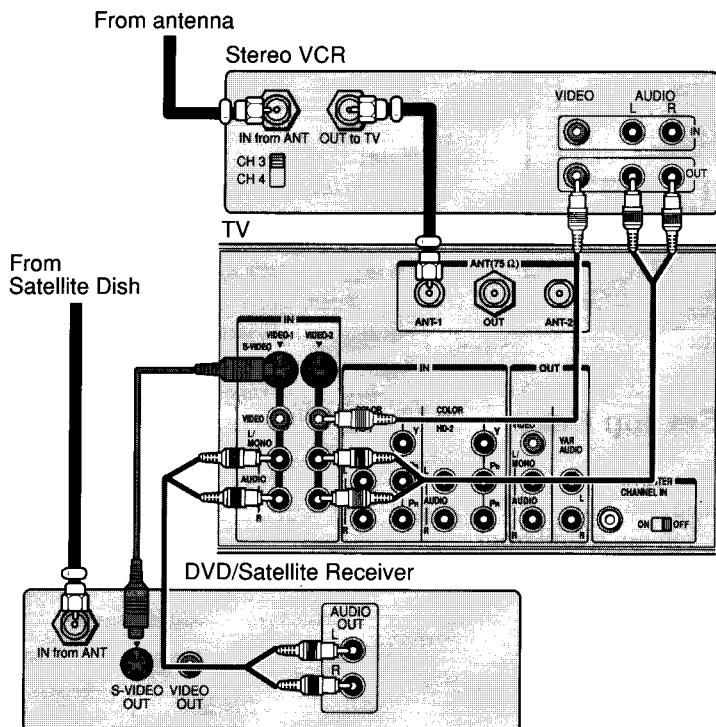
*When you use a converter box with your TV, there may be features that you can not program using the remote control, such as programming your favorite channels labeling channels, and blocking channels.*

## Connecting a DVD/satellite receiver and a VCR

This connection allows you to watch DVD/satellite, video and TV programs. You can record one TV channel while watching another channel.

### You will need:

- one coaxial cable
- two pairs of audio cables (only one cable for a mono VCR)
- one video cable
- one S-video cable



***Caution:***

*You can use a video cable instead of the S-video cable, but the picture quality will decrease. If you use a S-video cable between the TV and DVD/satellite receiver, make the audio connections only and remove the video connection.*

*Do not connect the video cable and the S-video cable to Video-1 simultaneously.*

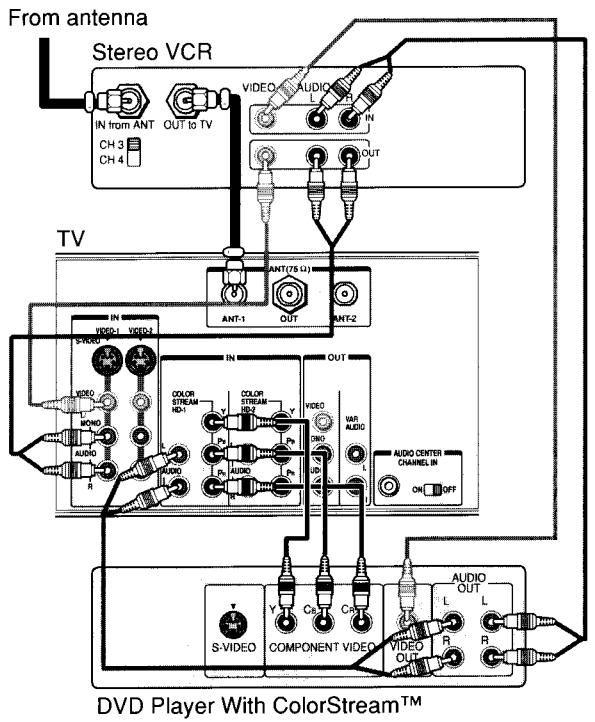
*The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of copyright laws.*

## Connecting a DVD with ColorStream™ and a VCR

This connection allows you to watch DVD, video or TV programs and to record DVD or TV programs. You can record from one source and watch a program from another source. Your TV is capable of using ColorStream (component video). Connecting your TV to a ColorStream compatible DVD, such as a Toshiba DVD, can greatly enhance picture quality and performance.

### You will need:

- one coaxial cable
- three pairs of audio cables (only one cable for a mono VCR)
- two video cables
- one set of ColorStream video cables

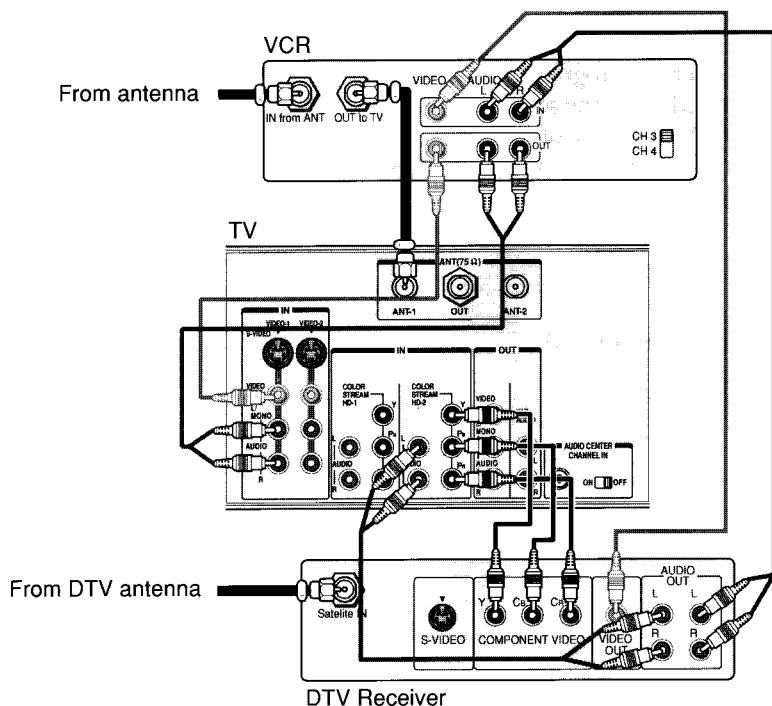


## Connecting a DTV receiver (or Set Top Box) and a VCR

This connection allows you to watch digital broadcasts, video or TV programs and to record DTV or TV programs. You can record from one source and watch a program from another source. Connecting your TV to a ColorStream (component video) compatible DTV receiver can greatly enhance picture quality and performance.

You will need:

- one coaxial cable
- three pairs of audio cables (only one cable for a mono VCR)
- two video cables
- one set of ColorStream video cable



### Caution:

To play from the DVD, the DVD and TV must use ColorStream connections. To record from the DVD, the DVD and TV must select Video.

To monitor recording from the DVD, the VCR must select Line IN, and the TV must select Video-1.

*The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of copyright laws.*

### Note:

You can use either the ColorStream HD 1 or HD 2 inputs for connecting the DVD or DTV. However, you will need the mode selection in the PREFERENCE menu. See "Selecting the ColorStream mode" on page 37.

The ColorStream HD 1 and HD 2 jacks are available for both of Progressive (480p) and Interlace (480i, 1080i) scan system.

### Caution:

To watch DTV, the DTV receiver and TV must use ColorStream connections. To record from the DTV, the DTV receiver and TV must select Video.

To monitor recording from the DTV, the VCR must select Line IN, and the TV must select Video-1.

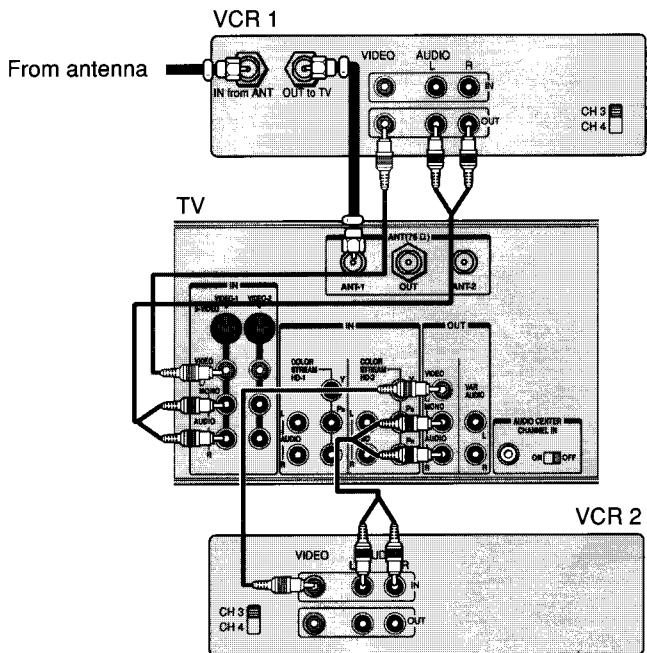
*The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of copyright laws.*

## Connecting two VCRs

This connection allows you to record (dub/edit) from one VCR to another VCR while watching a video program. You will also be able to record from one TV channel while watching another channel.

You will need:

- one coaxial cable
- two pairs of audio cables (only two cables for mono VCRs)
- two video cables



### **Caution:**

*Do not connect one VCR to the output and input jacks on the TV at the same time. If you are using a S-VHS VCR, use the S-video connections and remove the video cable. Do not connect the video cable and the S-video cable to Video-1 simultaneously.*

*The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of copyright laws.*

### **Note:**

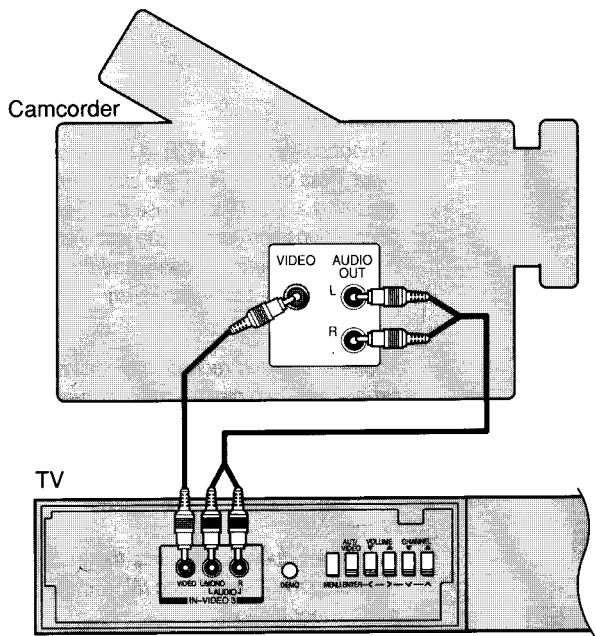
*To monitor dubbing/editting, the VCR 2 for recording must select Line IN, and the TV must select Video-1.*

## Connecting a camcorder

This connection allows you to watch video materials recorded on a camcorder.

You will need:

- one pair of audio cables
- one video cable

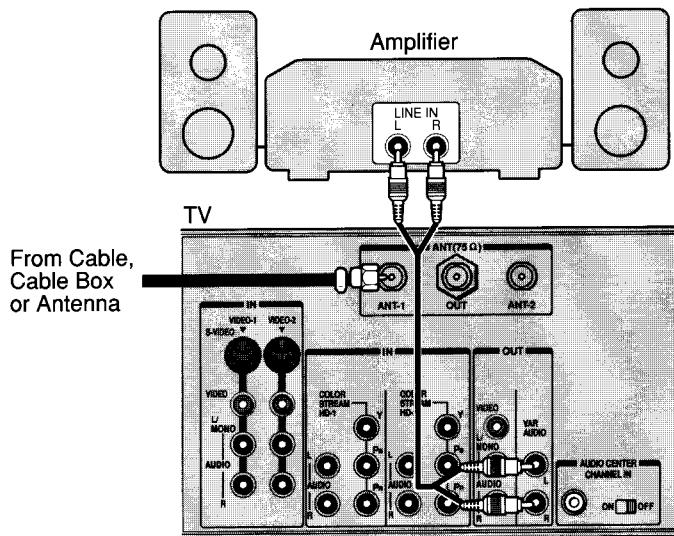


## Connecting an audio system

This connection allows you to use an audio amplifier to adjust the audio level. This also allows you to use external speakers.

To control the audio, turn on the TV and the stereo amplifier, then turn off the built-in speakers. (See "Turning off the built-in speakers" on page 42.)

You will need one pair of audio cables.



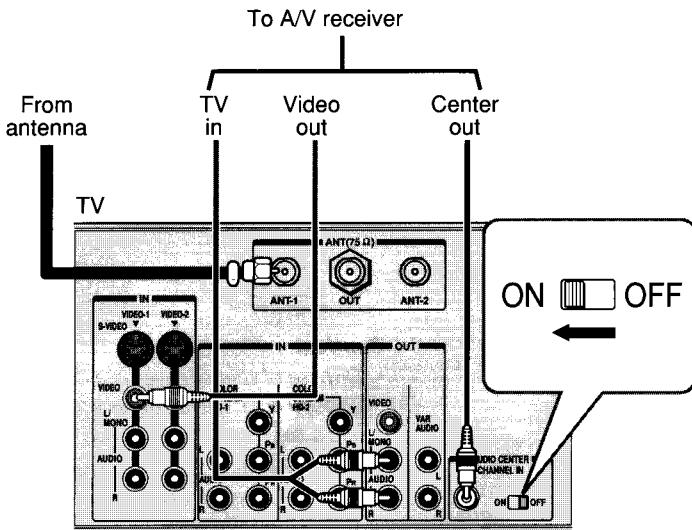
## Connecting an A/V receiver

If you use a system that delivers Dolby Pro Logic\* surround sound, you will probably want to use the TV speakers as center channel speakers.

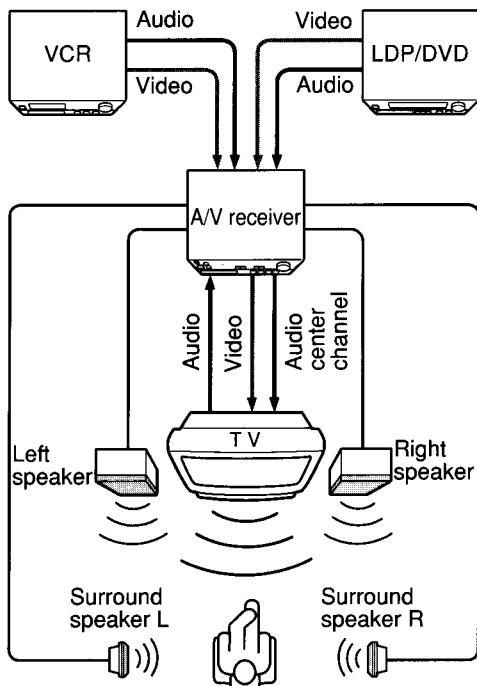
A center channel speaker adds to the realism of a surround sound system such as Dolby Pro Logic.

You will need:

- one pair of audio cables
- one video cable
- one audio cable for audio center channel



Connection example of Dolby Pro Logic surround system



### Caution:

Make sure the TV is turned off before connecting or disconnecting an audio cable to the Audio Center Channel IN jack. The speaker may be damaged.

### Note:

Refer to the instructions furnished with the connected A/V receiver for detailed surround system.

When the Audio Center Channel ON/OFF switch is in the ON position, the TV speakers will function only as the center channel speakers.

Adjust the volume for center channel speakers with the center level control on the A/V receiver.

If you use the TV speakers as normal speakers, set the Audio Center Channel ON/OFF switch to the OFF position.

\* "Dolby Pro Logic" is a trademark of Dolby Laboratories Licensing Corporation.

## Using the remote control

### Preparing the remote control for use

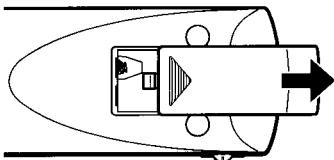
With the remote control, you can operate your TV, most VCR models, and cable TV converters together, even if they are different brands. If you will be using your TV with a Toshiba VCR, your remote control is already programmed and ready to use.

- If you own different brands of VCRs and/or converters, you first have to program your remote control. (See "Programming the remote control for use with a VCR or a cable TV converter" on page 13.)
- Also, this remote control is capable of learning operating codes from most infrared remote control transmitters. (See "Learning operating code of another remote controller" on page 16.)

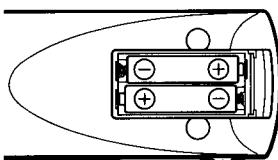
### Installing the remote control batteries

To install the batteries:

1. Slide the battery cover off of the back of the remote control.



2. Install two "AA" size alkaline batteries. Match the + and - signs on the batteries to the signs on the battery compartment.



3. Slide the battery cover back on to the remote control until the lock snaps.

### Using the remote control with a VCR or a cable TV converter

To control a Toshiba VCR:

Set the TV/CABLE/VCR/AUX switch to the VCR position. The buttons shown to the right will then control the VCR. The rest of the buttons will operate the TV as usual.

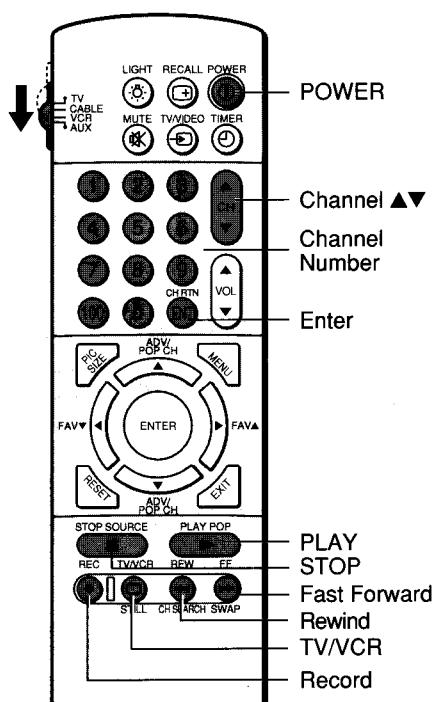
If you own different brands of VCRs, program the remote control to recognize the brand of your VCR. (See "Programming the remote control for use with a VCR or a cable TV converter" on page 13.)

#### Note:

This remote control's functions may or may not operate your VCR or cable TV converter. Refer to the owner's manuals supplied with the equipment to see which features are available. In addition, the original controllers may have features not available on this remote control. If you would like to continue to use these features, you may want to use the original remote control.

#### Caution:

- Dispose of your batteries in a designated disposal area. Do not throw your batteries into a fire.
- Do not mix battery types or combine used batteries with new ones.
- Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
- If you do not intend to use the remote control for a long time, remove the batteries.



To control a cable TV converter:

Program the remote control to recognize the brand of your converter. The shaded buttons will control the cable TV converter.

Set the TV/CABLE/VCR/AUX switch to the CABLE position.

## Programming the remote control for use with a VCR or a cable TV converter

This remote control is pre-programmed to operate Toshiba VCRs. To use VCRs or cable converters other than Toshiba models, you must follow the steps below before you operate your remote control.

1. Refer to the "VCR code table" or "Cable TV converter code table" on pages 14-15 to find the number that corresponds to the brand name of your VCR or converter.
- If more than one number is listed, try each one separately until you find the one that works.
2. If you are reprogramming the remote control to operate your:
  - **VCR**, set the TV/CABLE/VCR/AUX switch on the remote control to VCR.
  - **cable converter**, set the TV/CABLE/VCR/AUX switch on the remote control to CABLE.
3. Hold down the RECALL button while using the Channel Number buttons to enter the three-digit code number of your brand of VCR or converter.

The program indicator (LIGHT button) lights up for 1 second when the programming is completed.

When an operation error has occurred, the indicator blinks.

Press RECALL again to reset.

4. Point the remote control at the VCR or converter and press POWER to test the code number.

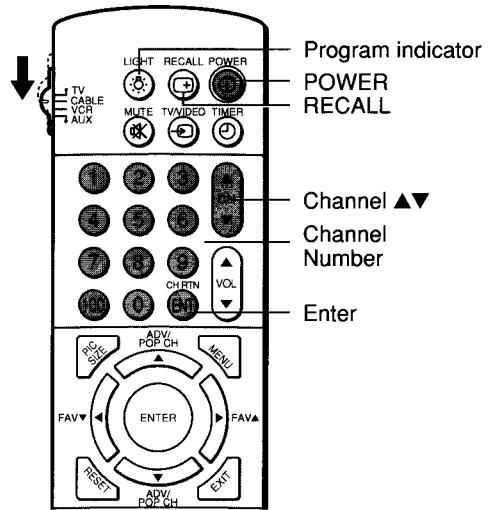
If the VCR or converter turns on, you have entered the right number.

If the VCR or converter does not respond to the remote control, you may have entered the wrong number. Repeat steps 1-4 with another code number.

5. Reset the TV/CABLE/VCR/AUX switch to TV to control the TV.

For future reference, write down the code numbers you used:

VCR code \_\_\_\_\_  
Cable code \_\_\_\_\_



**Note:**

- Each time you replace the batteries, you must reprogram the remote control.
- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled "VCR1/VCR2".

If your VCR has this kind of switch, it may not respond to any of the code numbers for your VCR brand name. In this case, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

## VCR code table

Brand name	Code number				
Adventura	019	Kenwood	057, 060, 086	Randex	056
Aiko	297	KLH	091	RCA	061, 079, 084, 096,
Aiwa	019	Kodak	054, 056		124, 125, 168, 221
Akai	060, 068, 080, 125, 261	Lloyd	019	Realistic	019, 054, 056, 065,
American High	054	Lloyd's	227		066, 067, 081, 085,
Asha	259	Logik	091		123, 259
Audiovox	056	LXI	056	Ricoh	053
Beaumark	259	Magnavox	054, 058, 100, 129, 168	Runco	058
Bell & Howell	123	Magnin	259	Samsung	064, 259
Brandt	206	Marantz	054, 100	Sankyo	058, 067
Broksonic	140, 203, 230, 314, 380	Marta	056	Sansui	060, 086
Calix	056	Matsushita	054	Sanyo	065, 066, 123, 259
Canon	054	MEI	054	Scott	062, 064, 140, 203, 229, 230, 231
Capeheart	039	Memorex	019, 054, 056, 058, 065, 066, 067, 123, 259	Sears	054, 056, 061, 065, 066, 073, 085, 123, 124
Carver	100	MGA	062, 080	Sharp	067, 081
CCE	091, 297	MGN Technology	259	Shintom	091
Citizen	056, 297	Minolta	061, 124	Shogun	259
Colt	091	Mitsubishi	062, 080, 086, 192, 233, 261	Singer	091
Craig	056, 066, 091, 259	Motorola	054, 067	Sony	051, 052, 053, 054
Curtis Mathes	054, 060, 079	MTC	019, 259	STS	061
Cybernex	259	Multitech	019, 091	Sylvania	019, 054, 062, 100, 129
Daewoo	039, 064, 297	NEC	057, 059, 060, 069, 086	Symphonic	019
Daytron	039	Nikko	056	Tatung	060
Dynatech	019	Noblex	259	Teac	019, 060
Electrohome	056	Olympus	054	Technics	054, 181
Electrophonic	056	Optimus	056, 067, 123	Teknika	019, 054, 056, 071
Emerex	051	Optonica	081	Telefunken	206
Emerson	019, 021, 056, 062, 080, 140, 203, 227, 228, 230, 231, 297 313, 314, 380, 498	Orion	498	TMK	227, 259
Fisher	066, 073, 085, 123	Panasonic	054, 096, 181, 244	Toshiba	062, 064, 085, 229, 231, 385
Fuji	052, 054	Penney	054, 056, 057, 059, 061, 073, 259	Totevision	056, 259
Funai	019	Pentax	061, 084, 124	Unitech	259
Garrard	019	Philco	054	Vector	064
GE	054, 079, 084, 221	Philips	054, 081, 100, 129	Vector Research	057, 059
Go Video	251, 298	Pilot	056	Video Concepts	059, 064, 080
GoldStar	056, 057	Pioneer	086	Videosonic	259
Gradiente	019	Portland	039	Wards	019, 054, 061, 066, 067, 081, 091, 168, 231, 259
Harley Davidson	019	Protec	091	XR-1000	019, 054, 091
Harman/Kardon	057	Pulsar	058	Yamaha	057
Harwood	091	Quarter	065	Zenith	052, 053, 058
Headquarter	065	Quartz	065		
HI-Q	066	Quasar	054, 096		
Hitachi	060, 061, 084, 124	Radio Shack	019, 056		
Jensen	060	Radix	056		
JVC	027, 060, 086				

## Cable TV converter code table

Brand name	Code number		
ABC	022, 026, 027, 030, 032, 033, 036	Standard	
Archer	058, 172	Components	174
Century	172	Starcom	022, 034
Citizen	172	Stargate	034, 059
Colour Voice	044, 050	Starquest	034
Comtronics	059, 079	Televiwer	059
Contec	038	Tocom	031, 032, 078
Dae Ryung	027	Toshiba	019
Eastern	021	Tusa	034
Focus	419	Unika	172
Garrard	172	United Artists	026
Gemini	034, 089	United Cable	022
General		Universal	058, 096, 172, 210
Instrument	030, 295	Viewstar	046, 079
GoldStar	059, 163	Zenith	019
Hamlin	028, 039, 278, 292	Zentek	419
Hitachi	030		
Hytex	026		
Jasco	172		
Jerrold	022, 030, 031, 033, 034, 043, 295		
Macom	052		
Magnavox	046		
Memorex	019		
Movie Time	175		
NSC	089, 175		
Oak	026, 038		
Panasonic	019, 040		
Paragon	019		
Philips	044, 046, 047, 048, 049, 050, 172		
Pioneer	163		
Popular			
Mechanics	419		
Pulsar	019		
RCA	040		
Recoton	419		
Regal	039, 278, 292		
Regency	021		
Rembrandt	030, 089		
Runco	019		
Samsung	059, 163		
Scientific Atlanta	025, 027, 036, 296		
Signal	034, 059		
Signature	030		
SL Marx	059		
Sprucer	040		

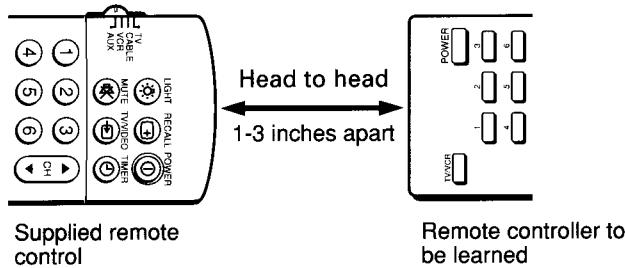
## Learning operating code of another remote controller

This remote control is capable of learning operating codes from most infrared remote controllers. You can control the functions of your TV and a variety of video/audio equipment with the supplied remote control only.

The 21 buttons marked with ● can be used as the Learning buttons. Whenever you use the Learning buttons you have programmed, set the TV/CABLE/VCR/AUX switch to the AUX position.

To program the Learning buttons:

1. Set the TV/CABLE/VCR/AUX switch to the AUX position.
2. Place the supplied remote control and the remote controller to be learned, head to head approximately 1 to 3 inches (3 to 8 cm) apart.



3. Hold down RECALL and ENTER at the same time to enter into the learning mode. The learning indicator will blink.
4. Hold down the Learning button (marked ●) on the supplied remote control until the learning indicator lights up.

When you press a button other than a Learning button, the indicator will blink. (The button you pressed is not a Learning button.)

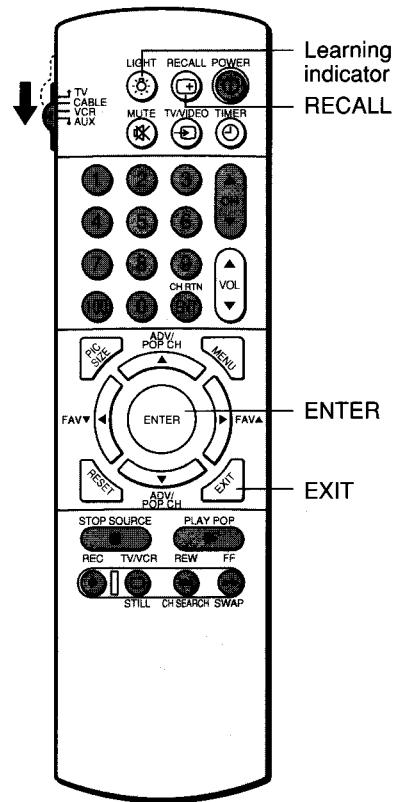
5. Hold down the button of the function to be learned on the other remote controller for about 3 seconds until the learning indicator starts blinking.

**Note:** If the learning indicator blinks rapidly, the supplied remote control cannot learn the operating code or an error has occurred.  
Try steps 4 and 5 again.

6. Repeat steps 4 and 5 for storing other functions into other buttons.
7. Press EXIT to release the learning mode.
8. To check your programming, operate the appropriate equipment with the supplied remote control. If the equipment does not operate as expected, repeat steps 1 to 7.

If necessary, try changing the distance between the two remote controllers.

9. Reset the TV/CABLE/VCR/AUX switch to the TV position to control the TV.



## Learning about the remote control

**POWER** turns the TV on and off (pages 13 and 39)

**TIMER** sets the TV to go off at a set time (page 39)

**RECALL** displays screen information (page 43)

**TV/VIDEO** selects video input source (page 37)

**MUTE** mutes the sound (page 40)

**LIGHT** press to back-light buttons for five seconds

**TV/CABLE/VCR/AUX** switches between TV, Cable, VCR and AUX (pages 12, 13, 16)

**Channel ▲▼** cycles through programmed channels (page 21)

**Channel Numbers (0-9, 100)** allow direct access to channels (page 21)

**Volume ▲▼** adjusts the volume level

**CH RTN** returns to the last viewed channel (page 22)

**PIC SIZE** selects the picture size (page 25)

**MENU** allows access to programming menus (page 18)

**ENTER** sets programmed menu information (pages 18, 22-24)

**▲▼◀▶** selects or adjusts programming menus (page 18)

**POP Channel ▲▼** cycles through POP channels (page 28)

**RESET** resets the picture and audio adjustments to the factory settings (page 36)

**FAV ▼▲** cycles through favorite channels (page 23)

**EXIT** exits programming menus (page 18)

**POP Functions** allow access to POP functions (pages 28, 29)

**VCR Functions** allow access to VCR functions (page 12)

**PLAY** press to play a videotape

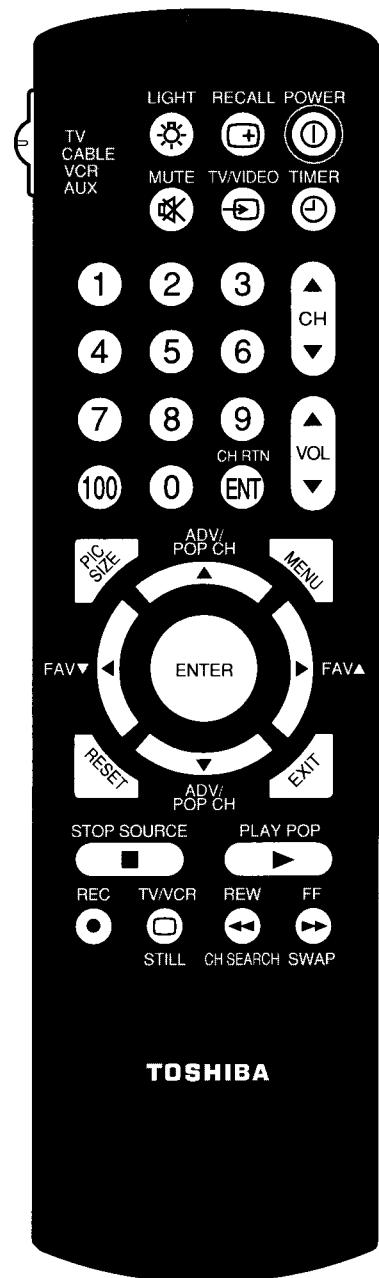
**STOP** press to stop a videotape

**REC** press to start recording a videotape

**FF** press to fast forward a videotape

**REW** press to rewind a videotape

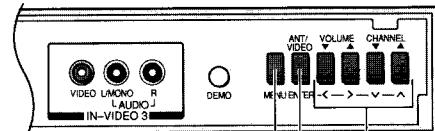
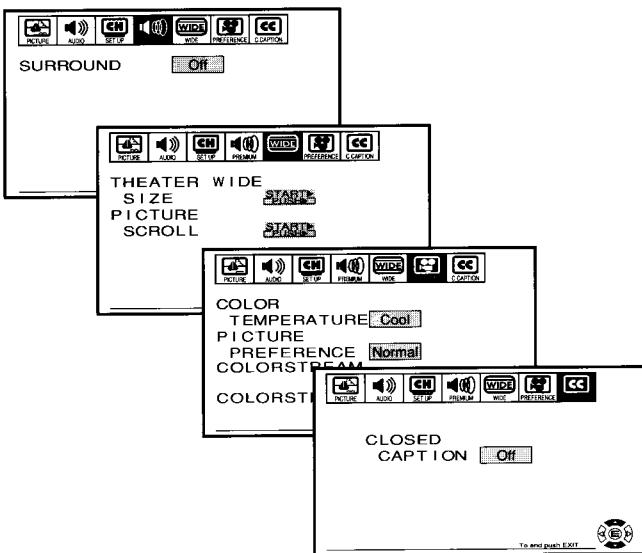
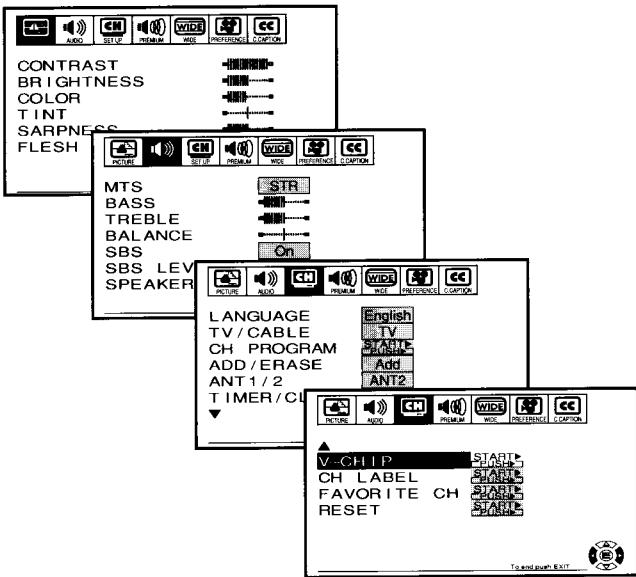
**TV/VCR** toggles between TV and VCR when viewing while recording



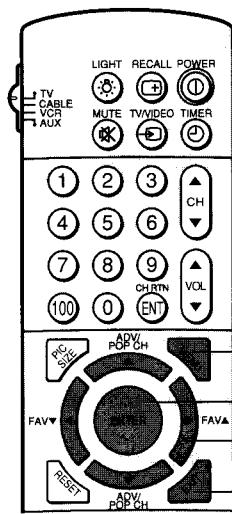
## Setting up your TV

After you've installed the batteries and programmed the remote control, you need to set some preferences on the TV using the menu. You can access the menu with the buttons on your TV or by using the remote control.

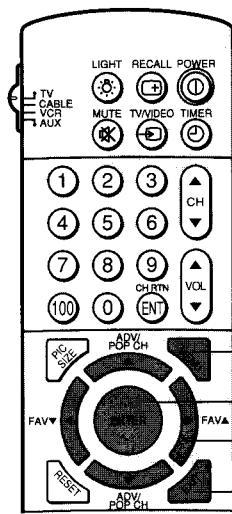
1. Press MENU to display menu.
2. Press **◀ ( < )** or **▶ ( > )** to select menu.
3. Press **▲ ( ^ )** or **▼ ( v )** select an item.
4. Press **◀ ( < )** or **▶ ( > )** to select or adjust a setting.



**◀ ( < )** **▶ ( > )**  
**ENTER**  
**MENU**



**MENU**  
**ENTER**  
**▲▼◀▶**  
**EXIT**



**MENU**  
**ENTER**  
**▲▼◀▶**  
**EXIT**

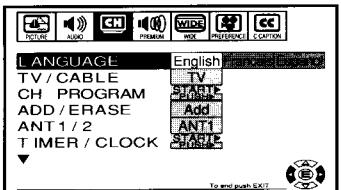
- Use the ENTER button to activate the function settings in the SET UP menu.
- The main menu display will disappear automatically if you do not make a selection within 15 seconds, and the other displays will disappear within 6 seconds.
- If you want to close all the on-screen displays instantly, press EXIT.

## Changing the on-screen display language

You can choose from three different languages (English, French and Spanish) for the on-screen displays. Adjustment menus and messages will appear in the language of your choice.

To select a language:

1. Press MENU, then press **◀ ( < )** or **▶ ( > )** until the SET UP menu appears.
2. Press **▼ ( ▼ )** or **▲ ( ▲ )** to highlight LANGUAGE.



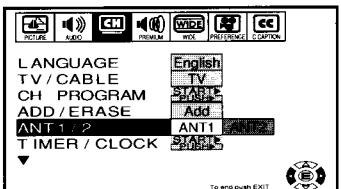
3. Press **◀ ( < )** or **▶ ( > )** to highlight your desired language.

## Selecting the antenna input

You can connect to two different signal sources by choosing the antenna input (ANT 1 or ANT 2).

To select the antenna input:

1. Press MENU, then use **◀ ( < )** or **▶ ( > )** to highlight the SET UP menu.
2. Press **▼ ( ▼ )** or **▲ ( ▲ )** to highlight ANT 1/2.



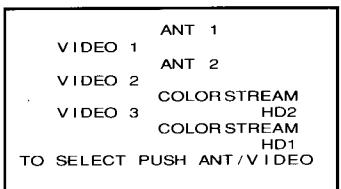
3. Press **◀ ( < )** or **▶ ( > )** to highlight either ANT 1 or ANT 2, depending on the antenna terminal you wish to use.

## Using the ANT/VIDEO button

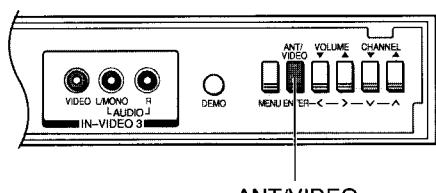
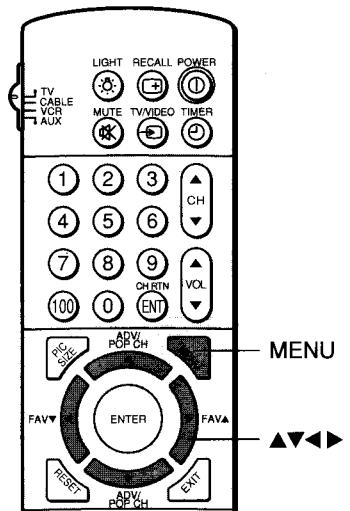
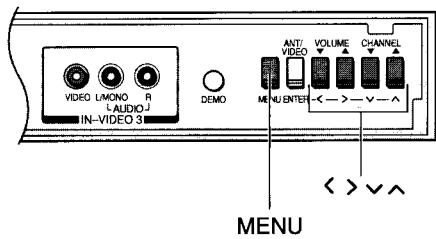
You can monitor or change the signal source that is connected to the TV. By pressing the ANT/VIDEO button on your TV, you can select the VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD 1, ColorStream HD 2, ANT 2 or ANT 1 mode. The signal source you are currently connected to will be displayed in purple.

To select the antenna input:

1. Press the ANT/VIDEO button. The signal source you are connected to is displayed in purple.



2. Press the button until ANT 1 or ANT 2 is displayed in purple, indicating the antenna terminal you wish to use.



## Adding channels to the TV's memory

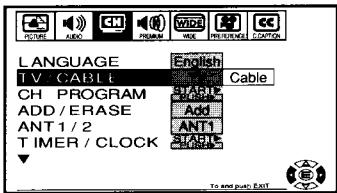
Your TV will stop on specific channels that are stored in the TV's channel memory when you press Channel ▲ or ▼. Use the steps below to set all active channels in your area automatically.

### Programming channels automatically

Your TV can automatically detect all active channels and store them in its memory. After the TV has stored the channels in its memory, you can erase channels or add your favorite channels. If you use both ANT-1 and ANT-2 terminals, you must program channels for each input source.

To add channels:

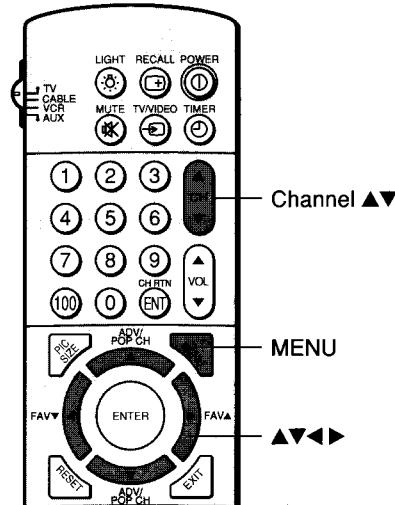
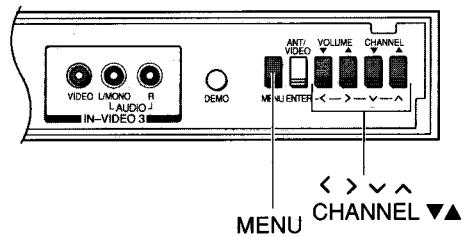
1. Press MENU, then press ▲ (▲) or ▼ (▼) until the SET UP menu appears.
2. Press ▼ (▼) or ▲ (▲) until the TV/CABLE is highlighted.
3. Press ▲ (▲) or ▼ (▼) to highlight either TV or CABLE, depending on which you use.



If you use an antenna, choose TV.

If you use cable, choose CABLE.

4. Press ▼ (▼) to select CH PROGRAM.
5. Press ▲ (▲) or ▼ (▼) to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.
- While the TV is cycling through the channels, the message "Programming Now Please Wait" appears.
6. When channel programming is complete, the message "Completed (channel or cable number)" appears.
7. Press Channel ▲ or ▼ to view the programmed channels.

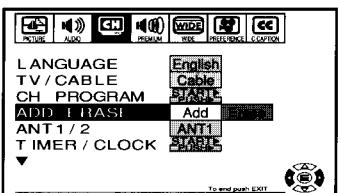


## Adding and erasing channels manually

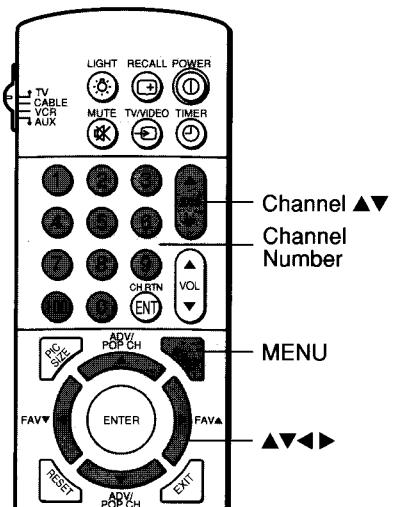
After you've programmed the channels, you can add or erase specific channels.

To add or erase channels:

1. Select the channel you want to add or erase using Channel ▲ or ▼. If adding channels, you must select the channel to add by using the Channel Number buttons.
2. Press MENU, then press ▲ or ▼ until the SET UP menu appears.
3. Press ▼ or ▲ to highlight ADD/ERASE.



4. Press ▲ or ▼ to select Add or Erase, whichever function you want to perform.
5. Repeat steps 1-4 for other channels you want to add or erase.



## Changing channels

To change the channel, you can:

- change the programmed channels using the remote control
- select a channel directly using the remote control
- scan the channels using the TV buttons

To change to the next programmed channel:

Press Channel ▲ or ▼ on the TV or remote control.

To change to a specific channel (programmed or unprogrammed):

Press the Channel Number buttons (0-9 and 100).

For example, to select channel 125, press the 100 button, the 2 button, and the 5 button.

# Using the TV's features

## Adjusting the channel settings

### Switching between two channels

You can switch between two channels without entering an actual channel number each time.

To switch between two channels:

1. Select the first channel you want to view.
2. Select a second channel with the Channel Number buttons (0-9, 100).
3. Press CH RTN. The previous channel will be displayed.

Each time you press CH RTN, the TV will switch back and forth between the two channels.

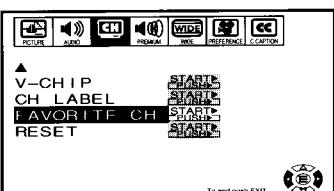
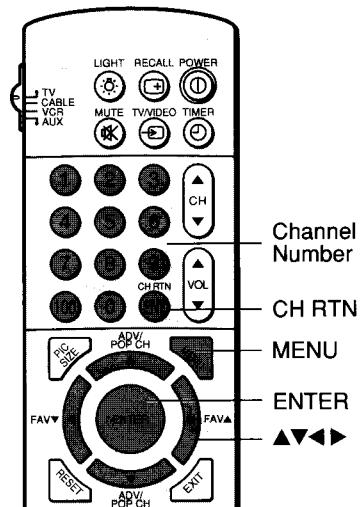
### Programming your favorite channels

You can preset up to 12 of your favorite channels using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

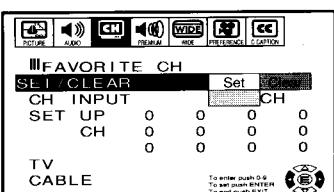
You can still use Channel  $\Delta$   $\nabla$  to scan through all the channels you programmed in the TV's memory.

To program your favorite channels:

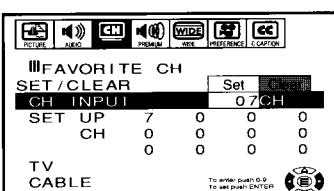
1. Press MENU, then press  $\blacktriangleleft$  or  $\triangleright$  until the SET UP menu appears.
2. Press  $\blacktriangleup$  or  $\blacktriangledown$  to highlight FAVORITE CH.



3. Press  $\blacktriangleleft$  or  $\triangleright$  to display the FAVORITE CH menu. SET/CLEAR will be highlighted.
4. Press  $\blacktriangleup$  or  $\blacktriangledown$  to highlight Set.



5. Press  $\blacktriangledown$  to highlight CH INPUT, then press the Channel Number buttons to enter the channel number.
6. Press ENTER.



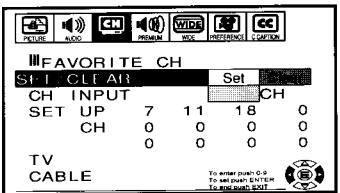
7. Repeat steps 5 and 6 for other channels.

To select your favorite channels:

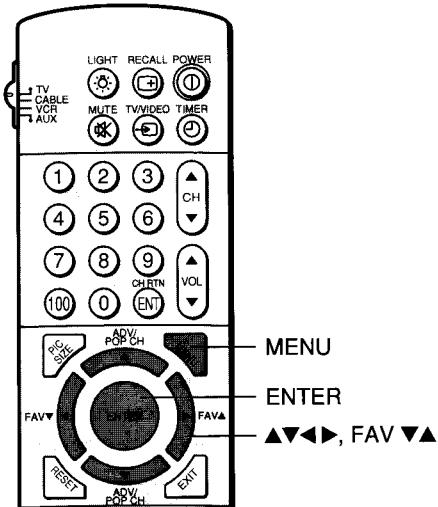
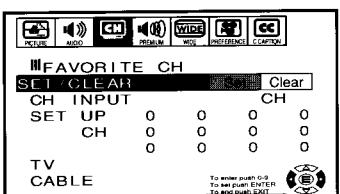
To scan your favorite channels in order one by one,  
Press the FAV **▼▲** buttons on the remote control to select your favorite channels.  
The FAV **▼▲** buttons will not work until you have programmed your favorite channels.

To clear your favorite channels:

1. Press MENU, then press **◀** or **▶** until the SET UP menu appears.
2. Press **▲** or **▼** to highlight FAVORITE CH.
3. Press **◀** or **▶** to display the FAVORITE CH menu.  
SET/CLEAR will be highlighted.



4. Press **◀** or **▶** to highlight Clear, then press ENTER until "0" replaces the channel numbers you have programmed.

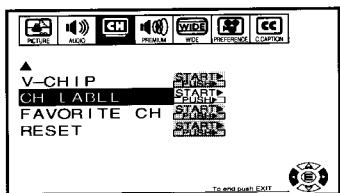


## Labeling channels

Channel labels will appear over the channel number display each time you turn on the TV, select a channel, or press the RECALL button. You can choose any four characters to identify the channels.

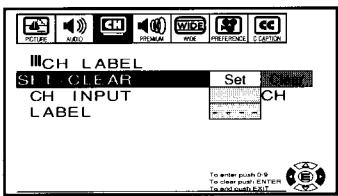
To create channel labels:

1. Press MENU, then press **◀** or **▶** until the SET UP menu appears.
2. Press **▲** or **▼** to highlight CH LABEL.

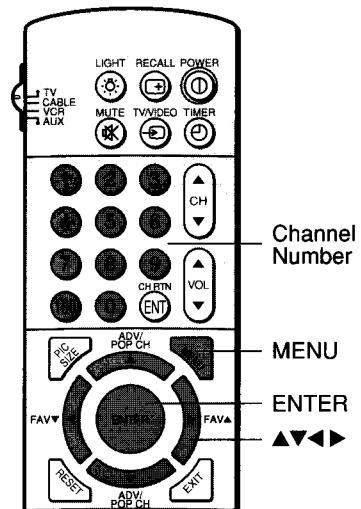
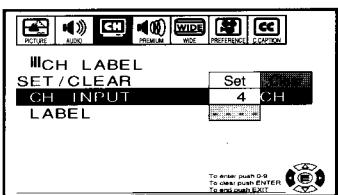


3. Press **◀** or **▶** to display the CH LABEL menu.  
SET/CLEAR will be highlighted.

4. Press **◀** or **▶** to highlight Set.

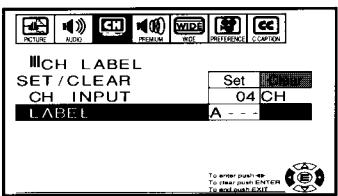


5. Press **▼** to highlight CH INPUT, then select a channel you want to label.



6. Press **▼** to highlight LABEL.

7. Assign the label to the channel. Press **◀** or **▶** to enter a character in the first space. Press the button repeatedly until the character you want appears on the screen. Press ENTER.



8. Repeat step 7 to enter the rest of the characters.

If you would like a blank space in the label name, you must choose an empty space from the list of characters. Otherwise, a dash will appear in that space.

9. Repeat steps 4 through 8 for other channels. You can assign up to 32 labels.

To erase channel labels:

1. Press MENU, then press **◀** or **▶** until the SET UP menu appears.
2. Press **▲** or **▼** to highlight CH LABEL.
3. Press **◀** or **▶** to display the CH LABEL menu.
- SET/CLEAR will be highlighted.
4. Press **◀** or **▶** to highlight Clear.
5. Press **▼** to highlight CH INPUT, then select the channel you want to clear with the Channel Number buttons.
6. Press ENTER.
7. Repeat steps 5 and 6 to erase other channel labels.

## Enjoying the wide pictures

You can watch programs with the usual TV picture aspect ratio of 4:3 as well as programs in a variety of letter box formats.

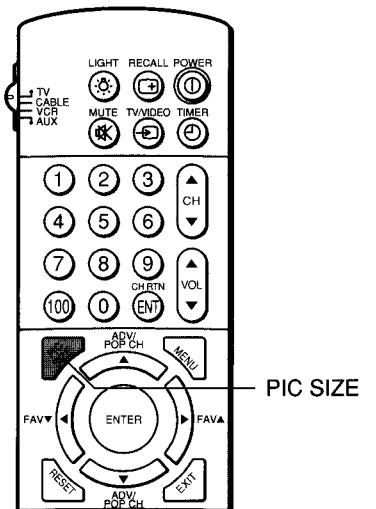
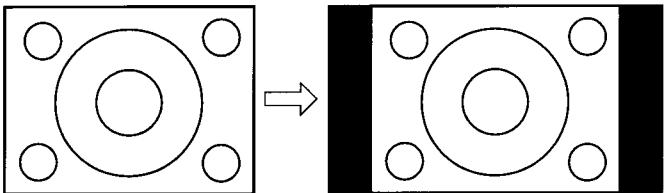
### Selecting the picture size

Press PIC SIZE repeatedly. The Standard, Theater Wide or Full mode shown below will be selected in order.

#### Standard

This mode shows pictures in conventional ratio of 4:3.

Viewing a 4:3 program



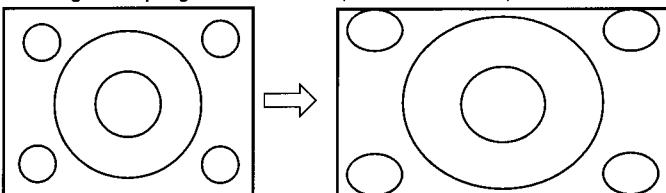
#### Theater Wide

This mode shows pictures magnified to fill the screen.

You can select desired one from three theater wide modes.

See page 26 for details.

Viewing a 4:3 program



(Theater 1 mode)

#### Note:

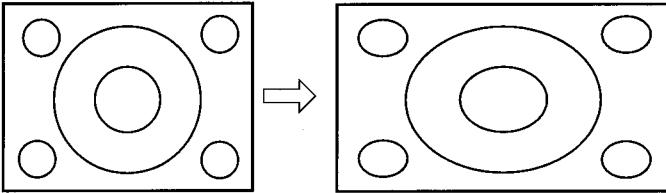
If you select the *Theater Wide* mode for 4:3 programs, the picture at the top and bottom of the screen will be hidden. If the picture or subtitles are difficult to read, adjust the height of the picture or scroll the picture. (See pages 26 and 27.)

- When the POP is displayed, the PIC SIZE button is not available.
- When a 16:9 program is received, the PIC SIZE button is ignored.
- 480p and 1080i signal sources are to be fixed to "Full" mode.

#### Full

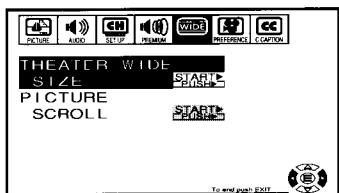
This mode shows the pictures stretched to fill the screen.

Viewing a 4:3 program

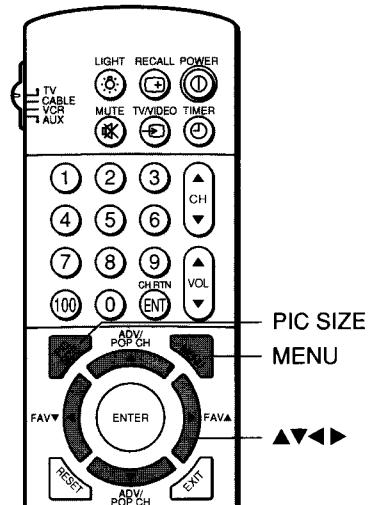
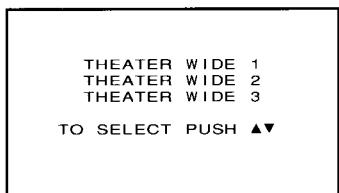


## Adjusting the height of the picture (for Theater Wide mode)

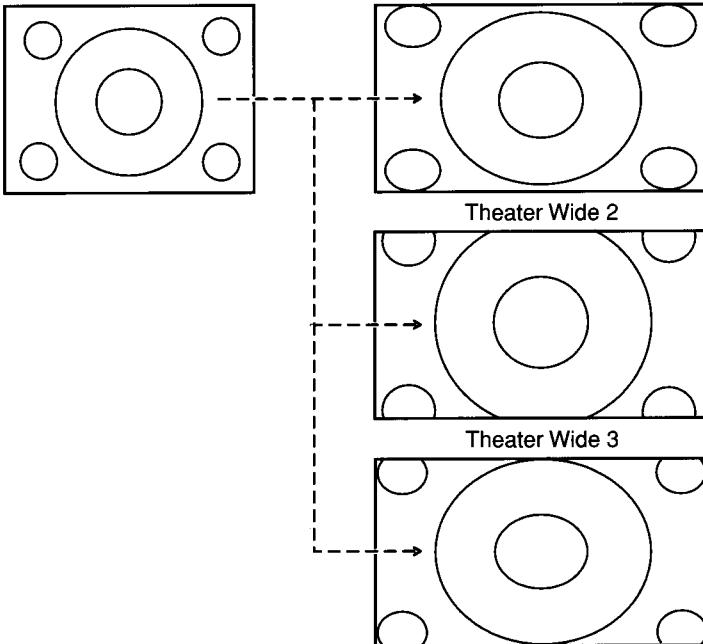
1. Press PIC SIZE to select the Theater Wide mode.
2. Press MENU, then press **◀** or **▶** until the WIDE menu appears.
3. Press **▲** or **▼** to highlight THEATER WIDE SIZE.



4. Press **◀** or **▶**, then press **▲** or **▼** to select the appropriate picture height from the following three modes.



Receiving a 4:3 program



Theater Wide 1 (recommended mode)

The central images will be close to their normal proportions.

The left and right edges will be stretched.

Theater Wide 2

The whole images will retain to its true aspect, but some of the images on the top and bottom will be lost.

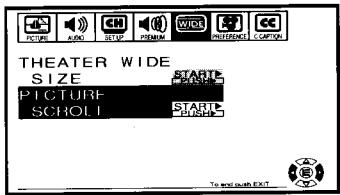
Theater Wide 3

The whole images will be uniformly stretched.

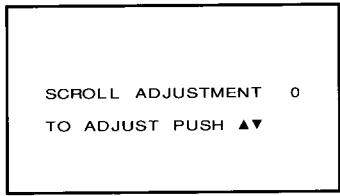
Some of the images on the top and bottom will be slightly lost.

## Adjusting the vertical position of the picture (for Theater Wide 2 or 3)

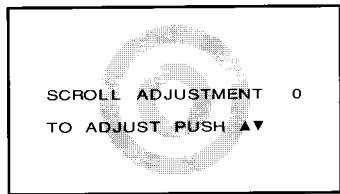
1. Press PIC SIZE to select the Theater Wide mode.
2. Press MENU, then press **◀** or **▶** until the WIDE menu appears.
3. Press **▲** or **▼** to highlight THEATER WIDE SIZE.
4. Press **◀** or **▶**, then press **▲** or **▼** to select the Theater Wide 2 or 3 mode.
5. Press MENU, then press **▲** or **▼** to highlight PICTURE SCROLL.



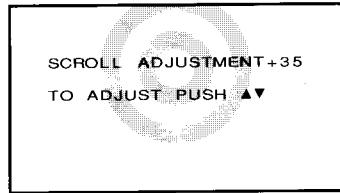
6. Press **◀** or **▶** to display the Scroll Adjustment mode.



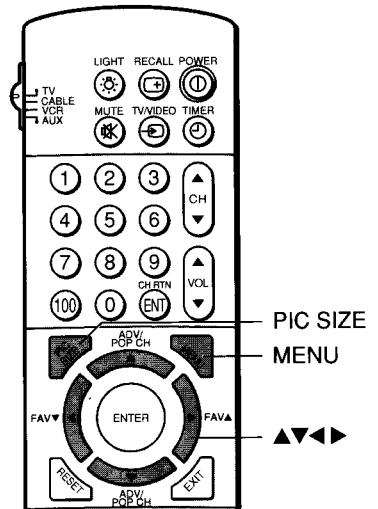
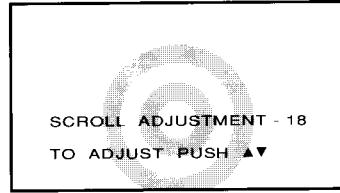
7. Press the **▲** or **▼** to adjust the vertical position of the picture.
- Normal (center) position



- To raise the picture, press **▲**.



- To lower the picture, press **▼**.



### Note:

You can only adjust the vertical position in Wide 2 and Wide 3.

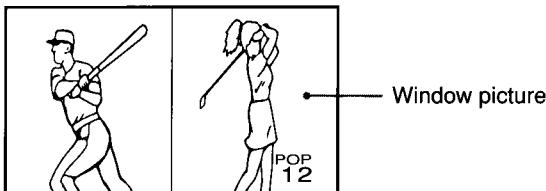
- 480i signal source:
  - Wide 1: Not adjustable
  - Wide 2: +45 – -20
  - Wide 3: +45 – -20
- 480p signal source is not adjustable.

## Enjoying Double-Window feature

The Double-Window or POP (picture-out-picture) feature allows you to watch two pictures at the same time. The window picture can be a TV broadcast or come from an external source, such as a VCR.

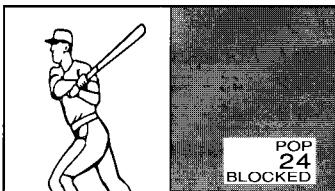
To display a TV broadcast as a window picture:

1. Select the program you want to watch.
2. Press POP to display a window picture. Each picture will be horizontally contracted.



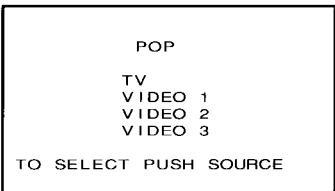
3. Press POP CH ▲▼ to choose the program you want to be displayed as a window picture.

If the V-CHIP feature is active and you try to watch a TV program that exceeds the rating limits you set, the TV will enter into the program block mode. See "Using V-CHIP control" on page 30.



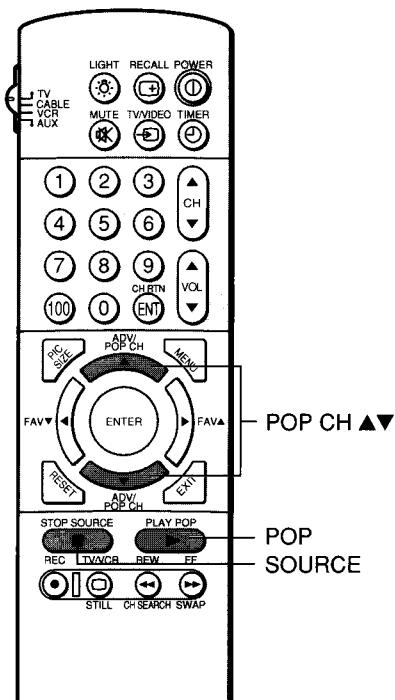
To display a picture from an external source as a window picture:

1. Make sure you have connected the external source equipment properly. For more information, see the "Connecting your TV" on page 5.
2. Select the program you want to watch.
3. Press POP to display a window picture.
4. Press SOURCE repeatedly to select the input source (VIDEO 1, VIDEO 2 or VIDEO 3) for the window picture. The selected source will be displayed in purple. ColorStream HD 1 and HD 2 can not be selected.



To turn the window off:

Press POP again.

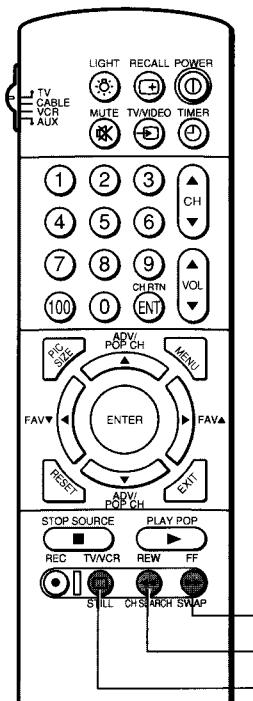
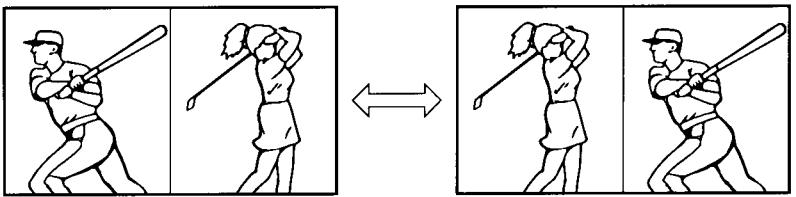


### Note:

- POP can not be turned on when the ColorStream input (HD 1 or HD 2) is being viewed.
- You can not display the signal sources input through the ANT-2 terminal as a small picture.

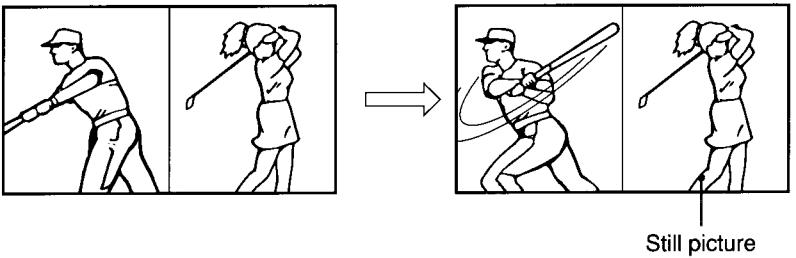
## Switching the main and window pictures

Press SWAP while you are using the POP feature to switch the main and small pictures. The main and small pictures will switch each time you press the SWAP button.



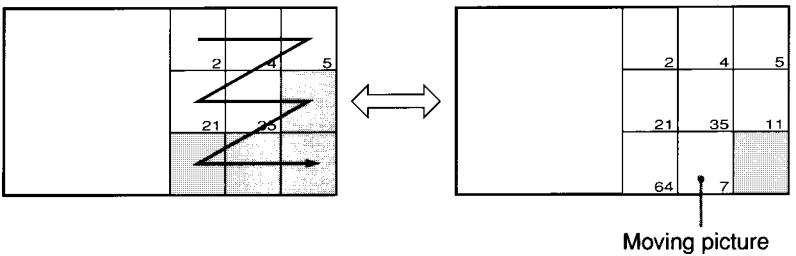
## Freezing the window picture

Press STILL while you are watching a small picture. The small picture will become a still picture. To return to the moving picture, press STILL again.



## Using the channel search function

Press CH SEARCH to scan the channels programmed in the TV memory.



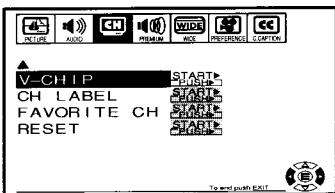
The 9-picture multi-search will start. To stop searching, press CH SEARCH again. You can watch your favorite channel as a moving picture. To continue searching, press CH SEARCH again. To cancel the channel search function, press POP.

## Using V-CHIP control

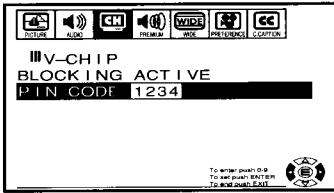
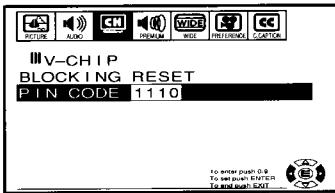
Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-CHIP control feature in this TV detects the signals and blocks the programs according to your selections. To use this feature, perform the following setup.

### Selecting the V-CHIP menu

1. Press MENU, then press **◀** or **▶** until the SET UP menu appears.
2. Press **▲** or **▼** to highlight V-CHIP.



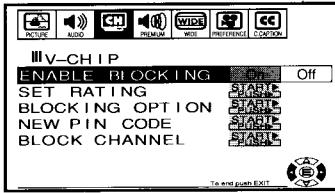
3. Press **◀** or **▶** to display the pin code entering mode.
- Factory reset status : Set your 4 digit code by pressing the Number buttons (0-9).
- When the pin code is already stored : Press the Number buttons (0-9) to enter the 4-digit pin code used to block channels.



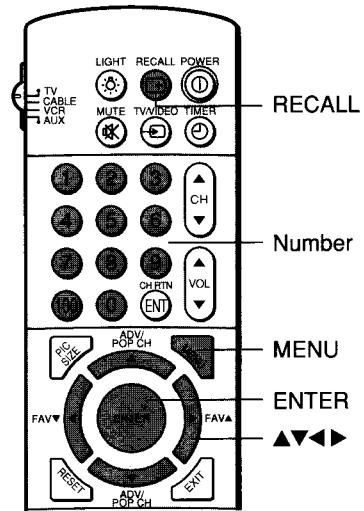
If a wrong pin code has been entered, the message "Incorrect" will appear. Try to enter the correct code again.

If you can not remember the pin code you have stored, while in the pin code entering mode, press the RECALL button four times within 5 seconds. The pin code you have stored will be released. (Factory reset status.)

4. Press ENTER to display the V-CHIP menu.



Continue to set each item following the steps on the next page.



## Adjusting the V-CHIP menu

### ENABLE BLOCKING

Press **◀** or **▶** to select On or Off.

On : To enable your setting (Block)

Off : To release your setting (Unblock)

**Note:** The block channel function is not affected with this selection.

### SET RATING (Setting the movie or TV ratings for your choice)

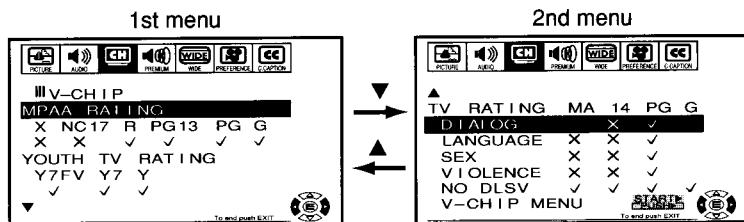
1. Press **◀** or **▶** to display the SET RATING menu.

2. Press **▼** or **▲** to select item.

3. Press **▶** to block (display **X**)

Press **◀** to unblock (display **✓**)

4. Repeat steps 2 and 3 to set the next item.



### About Rating

**MPAA RATING:** Independent rating system for movies

G: General Audience (Appropriate for all ages)

PG: Parental Guidance Suggested (Some material may not be suitable for children)

PG13: Parents Strongly Cautioned (Some material may be inappropriate for children under 13)

R: Restricted (Under 17 requires accompanying parent or adult guardian.)

NC17: Not intended for anyone 17 and under

X: X-rated (For adults only)

**TV RATING:** Independent rating system for broadcasters

**YOUTH TV RATING:**

Y: All Children (This program is designed to be appropriate for all children)

Y7, Y7FV: Directed to Older Children (This program is designed for children age 7 and above. Note: For those programs where fantasy violence may be more intense or more combative than other programs in this category, such programs will be designated TV-Y7-FV.)

G: General Audience (Most parents would find this program suitable for all ages.)

PG: Parental Guidance Suggested (This program contains material that parents may find unsuitable for younger children.)

D) Some suggestive dialog L) Infrequent coarse language

S) Some sexual situations V) Moderate violence

14: Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.)

D) Intensely suggestive dialog L) Strong coarse language

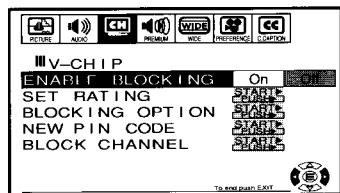
S) Intense sexual situations V) Intense violence

MA: Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.)

L) Crude or indecent language S) Explicit sexual activity

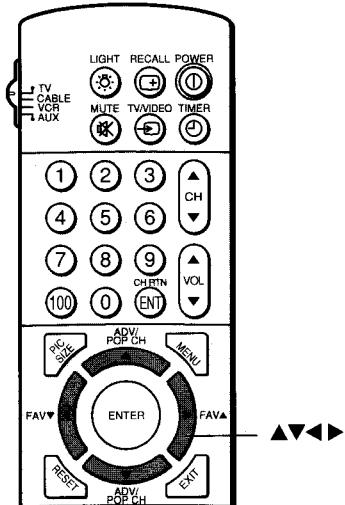
V) Graphic violence

### V-CHIP menu

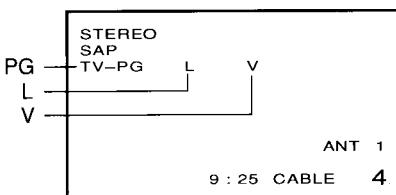


To select each item:

Press **▼** or **▲**.



The rating of the TV programs you are now watching can be confirmed by pressing the RECALL button.



## Adjusting the V-CHIP menu (continued)

### BLOCKING OPTION

Press **◀** or **▶** to display the BLOCKING OPTION menu, then press **▼** or **▲** to select item.

#### MPAA UNRATED

Press **◀** or **▶** to select On (Block) or Off (Unblock) for unrated programs on MPAA rating system.

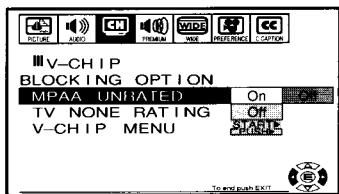
#### TV NONE RATING

Press **◀** or **▶** to select On (Block) or Off (Unblock) for programs rated NONE on TV PARENTAL GUIDELINES.

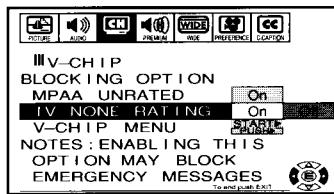
If you select On, the NOTES shown below will be displayed since the emergency information may also be blocked.

**Note:** The window picture (POP) is not blocked even if On is selected.

BLOCKING OPTION menu



If you select On on TV rating



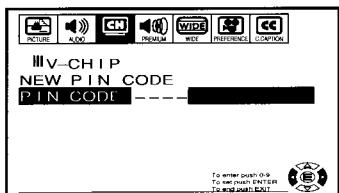
#### V-CHIP MENU:

Press **◀** or **▶** to return to the V-CHIP menu.

### NEW PIN CODE (Changing Pin Code)

1. Press **◀** or **▶** to display the NEW PIN CODE menu.
2. Press the Number buttons (0-9) to enter a 4-digit code.

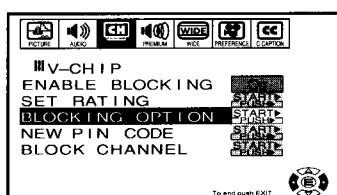
The numbers you enter will replace the dashes in the display.



3. Press ENTER.

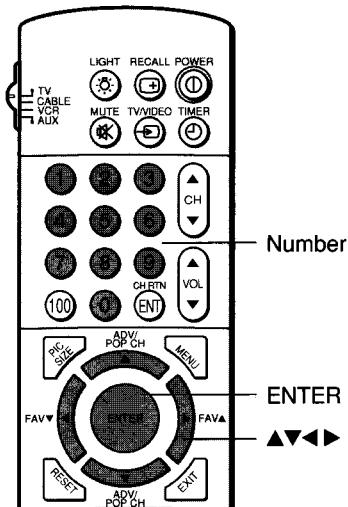
The display will return to the V-CHIP menu.

V-CHIP menu



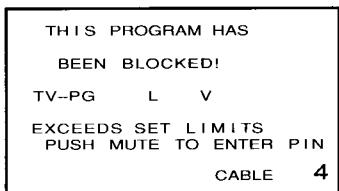
To select each item:

Press **▼** or **▲**.

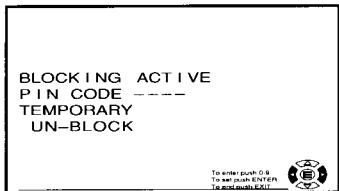


## Unblocking programs temporarily

1. If you try to watch a TV program that exceeds the rating limits you set, the TV will enter into the program block mode.



2. If you want to watch the blocked program temporarily, press MUTE.
3. Press the Number button (0-9) to enter the 4-digit code you have stored.



4. Press ENTER.

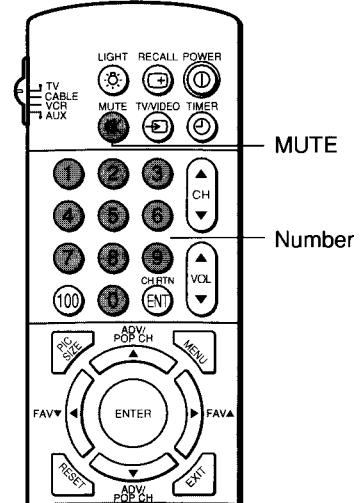
If the number is correct, the block mode will be released and the normal picture will appear.

All blocking is disabled until the TV is turned off.

It will be enabled when the power is reapplied.

If a wrong pin code is entered, the message "Incorrect" appears.

Enter the correct code again.



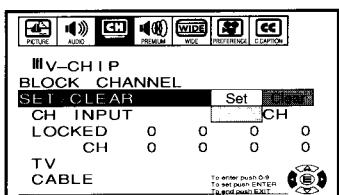
## Blocking Channels

With the BLOCK CHANNEL feature, you can block specific channels. The TV will not be able to tune these channels with the Channel  $\blacktriangle$   $\blacktriangledown$  buttons or Channel Number buttons, unless you clear the setting.

This TV has 8 memory spaces total, 4 for TV mode and 4 for CABLE mode.

To block channels:

1. Press  $\blacktriangle$  or  $\blacktriangledown$  to display the BLOCK CHANNEL menu. SET/CLEAR will be highlighted.
2. Press  $\blacktriangle$  or  $\blacktriangledown$  to highlight Set.



## V-CHIP menu



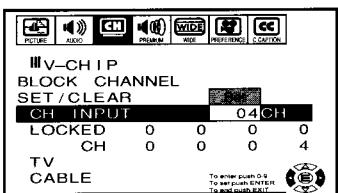
Using the TV's Features

To select each item:

Press  $\blacktriangledown$  or  $\blacktriangle$ .

3. Press **▼** to highlight CH INPUT, then press the Channel Number buttons to enter the channel number.

4. Press ENTER.

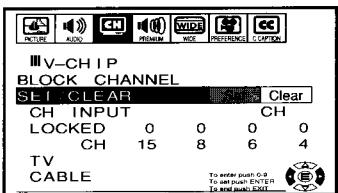


5. Repeat steps 3 and 4 for other channels.

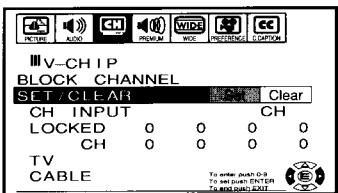
6. Press EXIT to clear the screen.

To unlock channels:

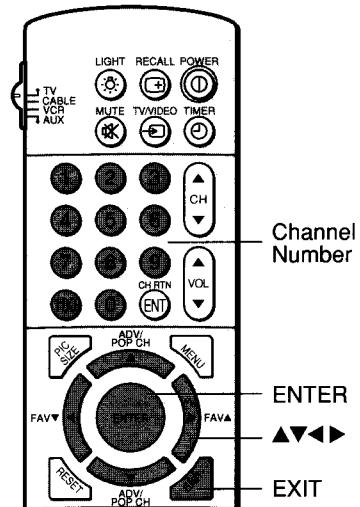
1. Select V-CHIP menu.
2. Press **▲** or **▼** to highlight BLOCK CHANNEL.
3. Press **◀** or **▶** to display the BLOCK CHANNEL menu.
4. Press **◀** or **▶** to highlight Clear.



5. Press ENTER until "0" replaces the channel numbers you have blocked.



6. Press EXIT to clear the screen.



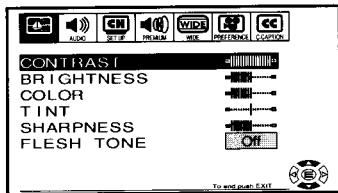
## Adjusting the picture

### Adjusting the picture quality

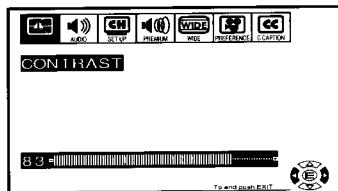
You can adjust the picture quality to your personal preferences, including the contrast, brightness, color, tint, sharpness, color temperature, picture preference, flesh tone and noise reduction. The qualities you choose will be stored automatically in your TV's memory so you can recall them at any time.

To adjust the picture quality:

1. Press MENU, then press **◀ (◀)** or **▶ (▶)** until the PICTURE menu appears.
2. Press **▼ (▼)** or **▲ (▲)** until the item you want to adjust is highlighted.



3. Press **◀ (◀)** or **▶ (▶)** to adjust the level.



Selection	▶ Pressing ▶	
contrast	lower	higher
brightness	darker	lighter
color	paler	deeper
tint	reddish	greenish
sharpness	softer	sharper

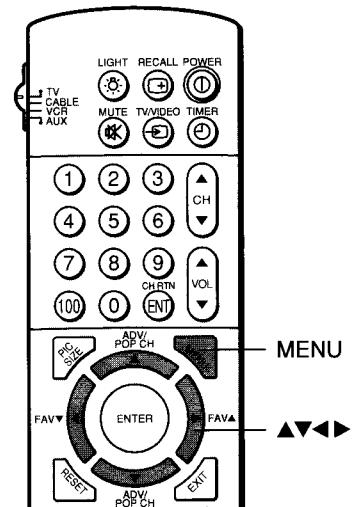
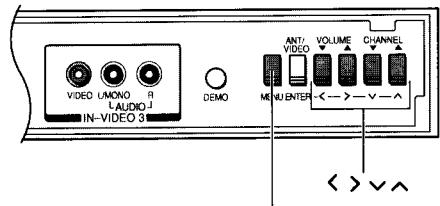
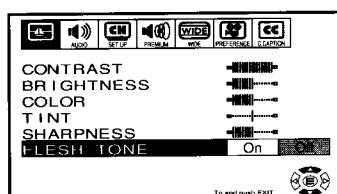
The PICTURE items you have adjusted will be stored in the TV's memory automatically. You can keep these settings or choose preset options under the PREFERENCE menu. (See "Selecting the color temperature" and "Adjusting the picture preferences" on page 36.)

### Using the flesh tone feature

This feature allows you to obtain natural flesh tones by correcting the difference of tint between TV stations.

To turn on the flesh tone feature:

1. Press MENU, then press **◀** or **▶** until the PICTURE menu appears.
2. Press **▲** or **▼** to highlight FLESH TONE.
3. Press **◀** or **▶** to highlight On.

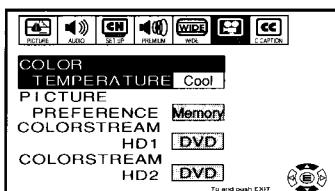


## Selecting the color temperature

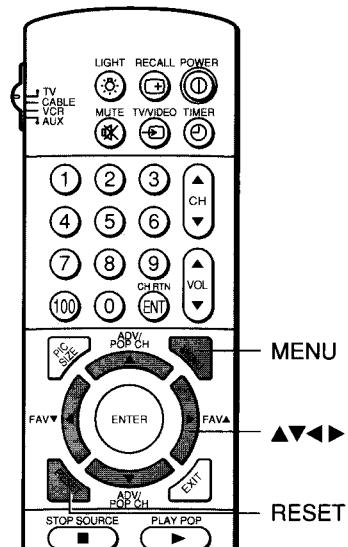
You can change the quality of the picture by selecting from three preset color temperatures: cool, medium, and warm.

To select the color temperature:

1. Press MENU, then press **◀ (◀)** or **▶ (▶)** until the PREFERENCE menu appears.
2. Press **▼ (▼)** or **▲ (▲)** to highlight COLOR TEMPERATURE.
3. Press **◀ (◀)** or **▶ (▶)** to highlight the mode you want.



Mode	Picture Quality
cool	blueish
medium	neutral
warm	reddish



## Adjusting the picture preferences

You can select your desired picture type from three preset picture modes: Normal, Theater, and Memory.

To select the picture preferences:

1. Press MENU, then press **◀** or **▶** until the PREFERENCE menu appears.
2. Press **▲** or **▼** to highlight PICTURE PREFERENCE.
3. Press **◀** or **▶** to highlight the mode you want.

The table below describes the effects of the different preferences.

Mode	Picture Quality
normal	picture quality set at factory
theater	movie-like picture setting
memory	your personal preference*

\*(see "Adjusting the picture quality" on page 35)

## Resetting your adjustments to the factory settings

Press RESET.

The RESET function adjusts the following picture and audio functions.

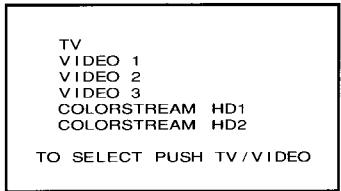
contrast ..... max  
 brightness ..... center  
 color ..... center  
 tint ..... center  
 sharpness ..... center  
 color temperature ..... cool  
 picture preference ..... normal  
 bass ..... center  
 treble ..... center  
 balance ..... center

### Note:

Resetting can also be done through the SETUP menu.

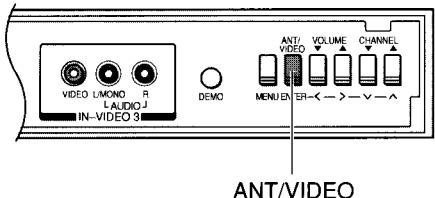
## Watching video input

You can use the TV/VIDEO button on the remote or ANT/VIDEO button (page 19) on the TV to view a signal coming from other devices, such as VCRs or DVDs that may be connected to your TV. Select VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD 1 or ColorStream HD 2 depending on which input jacks are used for connecting the devices. (See "Connecting your TV" on page 5.)



### Note:

- When ColorStream HD 1 or HD 2 is selected, the video OUT jack will not output a signal.
- To receive a video OUT signal, a video or S-video IN jack must be used instead of the ColorStream connection.
- While the POP is on the screen, if ColorStream HD 1 or HD 2 is selected, the POP will disappear.

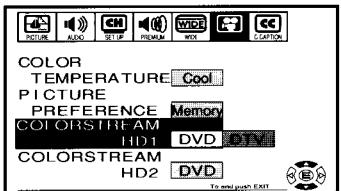


## Selecting the ColorStream mode

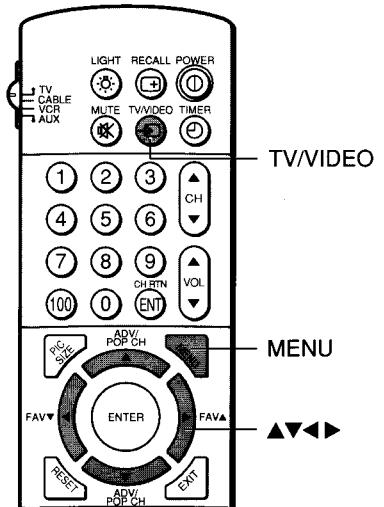
You can use either the ColorStream HD 1 or HD 2 inputs for connecting the DVD or DTV receiver.

After you connect the DVD or DTV receiver, make sure the ColorStream mode is properly selected.

- Press MENU, then press **◀** or **▶** until the PREFERENCE menu appears.
- Press **▲** or **▼** to highlight COLORSTREAM HD 1 or COLORSTREAM HD 2 depending on which input jacks are used for connecting the devices.



- Press **◀** or **▶** to highlight DVD or DTV.

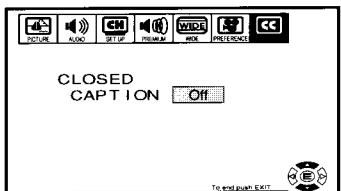


## Using the closed caption feature

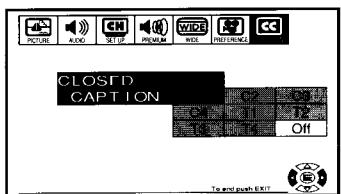
You have two options with the closed caption feature: captions or text. A caption is a printed version of the dialogue, narration and/or sound effects of a TV program. Text is information not related to the program that appears on half of the TV screen.

To view captions or text:

1. Select the desired program. The captioned programs are usually marked in your local TV listing by "CC."
2. Press MENU, then press **◀** or **▶** until the C.CAPTION menu appears.



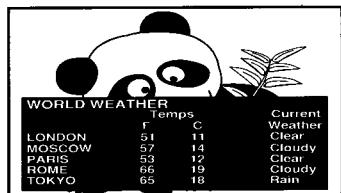
3. Press **▲** or **▼** to highlight CLOSED CAPTION.



4. Press **◀** or **▶** to select the closed caption mode.
- Select C1, C2, C3, or C4 to view captions. Select C1 for translation of the primary language in your area.

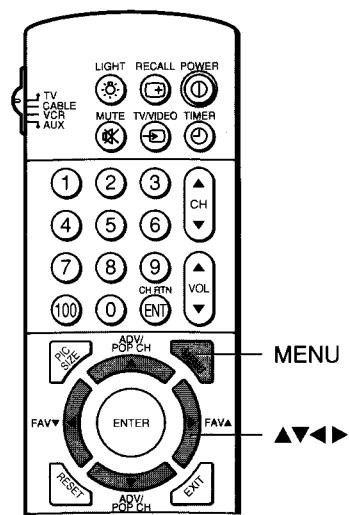


- Select T1, T2, T3, or T4 to view Text.



To turn off the closed-caption feature:

Select OFF in step 4.



### Note:

A closed caption signal may not be decoded in the following situations:

- when a video tape has been dubbed
- when the signal reception is weak
- when the signal reception is nonstandard

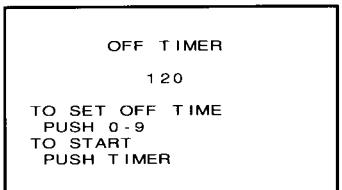
When you choose a closed captioned channel and the text mode, the text screen always appears. When there is no signal, however, the text screen will not display text characters.

## Setting the off-timer

You can set the TV so it turns off automatically.

To set the off-timer:

1. Press TIMER once to select the OFF TIMER.
2. Press two Number buttons (0-9) to enter how long you want the TV to remain on (up to three hours, in 10 minute increments). Enter the numbers after the number position starts to blink.



3. Press TIMER to start the timer. The display color will change from purple to blue, then turn off.

To cancel the off-timer:

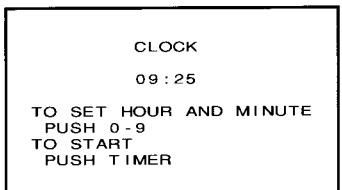
Press POWER twice, once to turn the TV off, and once to turn it on again.

## Setting the clock

To set the clock

1. Press TIMER twice to select the CLOCK.
2. Press four Number buttons (0-9) to enter the correct time. Enter the numbers after the number position starts to blink.

The clock operates on a 12 hour-cycle.



3. Press TIMER to start the clock. The display color will change from purple to blue, then turn off.

To monitor the time:

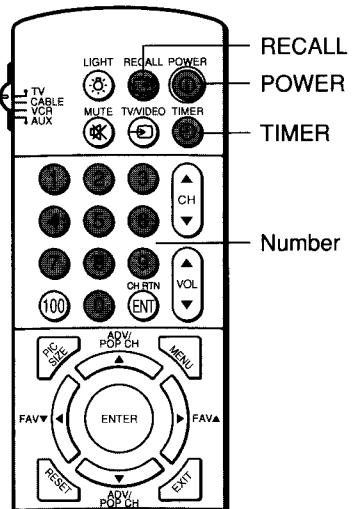
Press RECALL.

### Note :

The timer can also be set through the SET UP menu.

If you want to see how much time remains before the shut-off time, press TIMER once.

The remaining time will be displayed. To erase the display, press TIMER again.



### Note:

The clock can also be set through SET UP menu.

If the power source for the TV is interrupted (i.e., AC cord unplugged or power failure), the clock will have to be reset. (The time display will show "00:00".)

## Adjusting the sound

### Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the screen will display the word MUTE in the lower right-hand corner. To restore the sound, press MUTE again.

When you press the MUTE button, you automatically activate the closed caption feature. To deactivate this feature, press the MUTE button again. This feature only works when the closed caption mode is set to off. See "Using the closed caption feature" on page 38 for more information.

### Selecting stereo/SAP broadcasts

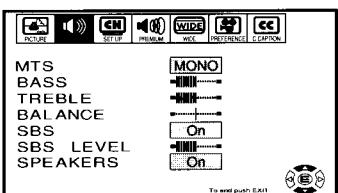
You can enjoy watching TV while you listen to high-fidelity stereo sound with the Multi-channel TV Sound (MTS) feature. MTS can also transmit a second audio program (SAP) containing a second language or other audio information.

When the TV receives a stereo or SAP broadcast, the word STEREO or SAP appears on the screen when the TV is turned on, you change the channel, or press the RECALL button.

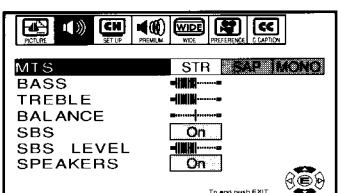
The MTS feature is not available while in the VIDEO mode.

To listen to stereo sound:

1. Press MENU, then press  $\blacktriangleleft$  or  $\triangleright$  until the AUDIO menu appears.



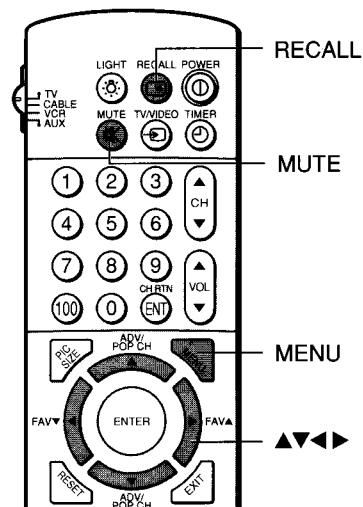
2. Press  $\blacktriangledown$  or  $\blacktriangleup$  to highlight MTS.
3. Press  $\blacktriangleleft$  or  $\triangleright$  to highlight STR.



You should leave your TV set to STR so you can automatically receive stereo or monaural sound, depending on the broadcast type. If the stereo sound is noisy, select MONO to reduce the noise. The word STR or SAP is displayed in yellow when the TV receives the signal, and in purple when you have selected the feature.

To listen to a second audio program:

1. Press MENU, then press  $\blacktriangleleft$  or  $\triangleright$  until the AUDIO menu appears.
2. Press  $\blacktriangledown$  or  $\blacktriangleup$  to highlight MTS.
3. Press  $\blacktriangleleft$  or  $\triangleright$  to highlight SAP. You will hear only the second audio program from the left and right speakers.

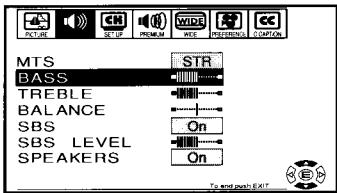


## Adjusting the sound quality

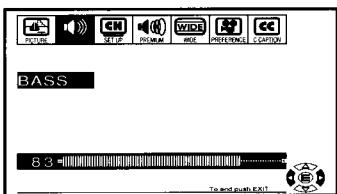
You can change the sound quality of your TV by adjusting the bass, treble, and balance.

To adjust the sound quality:

1. Press MENU, then press **◀** or **▶** until the AUDIO menu appears.
2. Press **▲** or **▼** to highlight the item you want to adjust.



3. Press **◀** or **▶** to adjust the level.



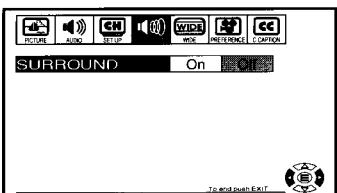
- **◀** makes the sound quality weaker or decreases the balance in the right channel, depending on the item selected.
- **▶** makes the sound quality stronger or decreases the balance in the left channel, depending on the item selected.

## Using the surround sound feature

The surround sound feature expands the audio listening field wider and deeper to create exceptional sound quality from the TV's speakers. The feature uses stereo signals from a TV broadcast or video input.

To turn on the surround sound feature:

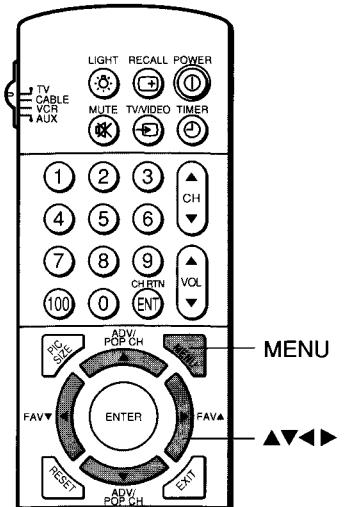
1. Select the stereo mode following the steps under "Selecting stereo/SAP broadcasts" on page 40.
2. Press MENU, then press **◀** or **▶** until the PREMIUM menu appears.
3. Press **▲** or **▼** to highlight SURROUND.
4. Press **◀** or **▶** to highlight On.



To turn off the surround sound feature:

Choose OFF in step 4 above.

In general, you should leave your TV set to SURROUND On so it can automatically produce surround stereo or monaural sound, depending on the broadcast type.

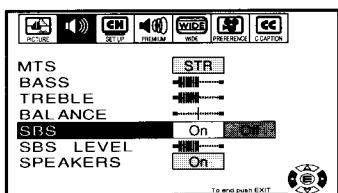


## Using the Sub-Bass System (SBS)

The Sub-Bass System allows you to improve bass performance (even when the sound volume is low).

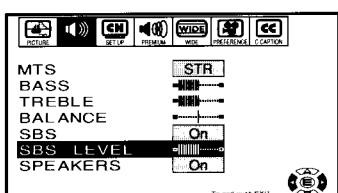
To turn on the Sub-Bass System:

1. Press MENU, then press **◀** or **▶** until the AUDIO menu appears.
2. Press **▲** or **▼** to highlight SBS.
3. Press **◀** or **▶** to highlight On.

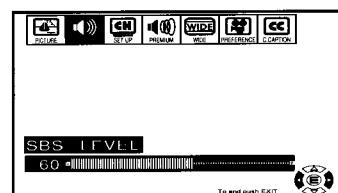


To adjust the SBS level:

4. Press **▲** or **▼** to highlight SBS LEVEL.



5. Press **◀** or **▶** to adjust the SBS level.



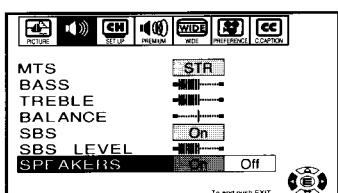
To turn off the Sub-Bass System:

Choose Off in step 3 above.

## Turning off the built-in speakers

Use this feature to turn the TV speaker off when you connect an audio system. (See "Connecting an audio system" on page 10.)

1. Press MENU, then press **◀** or **▶** until AUDIO menu appears.
2. Press **▲** or **▼** to highlight SPEAKERS.
3. Press **◀** or **▶** to highlight Off.



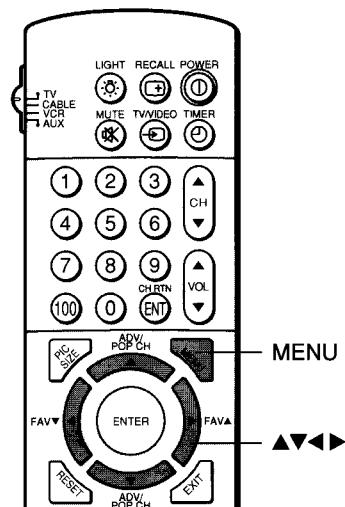
To turn on the built-in speakers:

Choose On in step 3.

### Note:

The Sub-Bass System signal does not pass through the "Variable Audio OUT" jacks. (See page 10.)

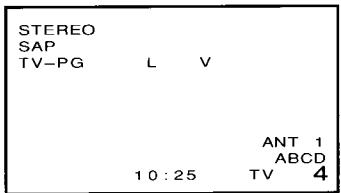
However, the AUDIO menu will appear when the buttons are pressed.



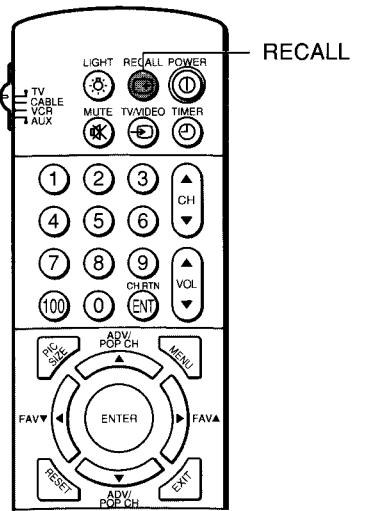
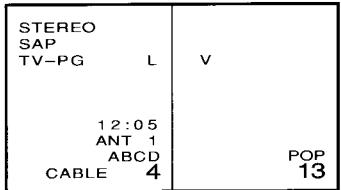
## Displaying on-screen information

Press RECALL to display the following on-screen information:

- Antenna mode (when in TV mode)
- Channel number or VIDEO mode selected
- Time (if preset)
- Channel label (if preset)
- Stereo or SAP (second audio program) audio status
- V-CHIP rating status



When in the Double-Window mode



## Viewing the demonstration mode

When you press DEMO on the TV, the TV will automatically display a variety of its on-screen menus and special features. This function is provided for demonstration purposes only.

To stop the demonstration mode:

Press DEMO again.

## Auto power off

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or if a station completes its broadcast for the day and stops broadcasting on that channel. This feature, however, does not work in the VIDEO mode.

## Understanding the last mode memory feature

If the power is cut off while you are viewing the TV and the power is resupplied, the last mode memory feature will turn the TV on automatically.

If the power is going to be off for a long time or you are going to be away from home for a long time, remove the power plug from the wall outlet to prevent the TV from turning on in your absence.

# Appendix

## Specifications

Television System	NTSC standard
Channel Coverage	VHF: 2 through 13 UHF: 14 through 69 Cable TV: Mid band (A-8 through A-1, A through I) Super band (J through W) Hyper band (AA through ZZ, AAA, BBB) Ultra band (65 through 94, 100 through 125)
Power Source	120 V AC, 60 Hz
Power Consumption	150 W (average)
Audio Power	10 W + 10 W
Speaker Type	Two 4-3/4 × 3-1/8 inches (12 × 8 cm)
Video/Audio Terminals	S-VIDEO INPUT Y: 1 V(p-p), 75 ohm, negative sync. C: 0.286 V(p-p) (burst signal), 75 ohm VIDEO/AUDIO INPUT VIDEO: 1 V(p-p), 75 ohm, negative sync. AUDIO: 150 mV(rms) (30% modulation equivalent, 47 kohm) ColorStream™ (component video) INPUT Y: 1V(p-p), 75 ohm Pb: 0.7 V(p-p), 75 ohm Pr: 0.7 V(p-p), 75 ohm AUDIO: 150 mV(rms), 47 kohm VIDEO/AUDIO OUTPUT VIDEO: 1 V(p-p), 75 ohm, negative sync. AUDIO: 150 mV(rms) (30% modulation equivalent, 4.7 kohm) VARIABLE AUDIO OUTPUT 0-300 mV(rms) (30% modulation equivalent, 4.7 kohm) AUDIO CENTER CHANNEL INPUT 300 mV(rms) (30% modulation equivalent, 10 kohm)
Dimensions	Width : 37-51/64 inches (960 mm) Height : 25-38/64 inches (650 mm) Depth : 23-25/64 inches (594 mm)
Mass	172.2 lbs. (78.1 kg)
Supplied Accessories	Remote Control with 2 size "AA" alkaline batteries

Design and specifications are subject to change without notice.

## Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the problem and some solutions.

### Problem

TV will not turn on

### Solution

- Make sure the power cord is plugged in, then press POWER.
- The remote control batteries may be dead. Replace the batteries.

No picture, no sound

- Check the antenna/cable connections.

No sound, picture OK

- The sound may be muted. Press VOLUME.
- The station may have broadcast difficulties. Try another channel.
- Check that the SPEAKERS function in AUDIO menu is properly set.

Poor sound, picture OK

- The station may have broadcast difficulties. Try another channel.

Poor picture, sound OK

- Check the antenna connections.
- The station may have broadcast difficulties. Try another channel.
- Adjust the PICTURE menu.

Poor reception of broadcast channels

- The station may have broadcast difficulties. Try another channel.
- Check the antenna connections.
- If you are using a VCR, make sure the TV/VCR button is set correctly.

Cannot receive above channel 13

- Make sure TV/CABLE is set to TV mode.

Black box appears on the screen

- Captioning may be turned on.

Unable to select a certain channel

- The channel may be locked out with the BLOCK CHANNEL feature, or erased with the ADD/ERASE feature.

Multiple images

- The station may have broadcast difficulties. Try another channel.
- Use a highly directional outdoor antenna.

Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Adjust the TINT and/or COLOR in the PICTURE menu.

No stereo or SAP sound from a known MTS broadcast

- Make sure the MTS feature is set properly.

The remote control does not operate

- Check if the TV/CABLE/VCR/AUX switch is properly set.
- There may be an obstruction between the remote control and the remote control sensor.
- The remote control batteries may be dead. Replace the batteries.

## Limited United States Warranty

Toshiba America Consumer Products, Inc. ("TACP") and Toshiba Hawaii Inc. ("THI") make the following limited warranties. These limited warranties extend to the original consumer purchaser or any person receiving this set as a gift from the original consumer purchaser and to no other purchaser or transferee.

### Limited One (1) Year Warranty

TACP and THI warrant this product and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP and THI will repair or replace a defective part, at their option, with a new or refurbished part, without charge to you. TACP/THI Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the TACP/THI authorized service station for repair and returned to your home at no cost to you.

### Limited Two (2) Year Warranty of Picture Tube

TACP and THI further warrant the picture tube in this product against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. During this period, TACP and THI will repair or replace a defective picture tube at their option, with a new or refurbished picture tube, without charge to you, except that if a defective picture tube is replaced after one (1) year from the date of the original retail purchase, you pay labor charges involved in the replacement.

### Rental Units

The warranty for rental units begins with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

### Commercial Units

Products sold and used for commercial use have a limited ninety (90) day warranty for all parts, labor and picture tube.

### How to Obtain Warranty Service

If after following all of the operating instructions in this manual and checking the section "BEFORE CALLING SERVICE PERSONNEL," you find that service is needed:

- (1) Call the TACP toll free number 1-800-631-3811 after you find a defective product or part to find the nearest TOSHIBA Authorized Service Station.
- (2) Please present your bill of sale or other proof to the Authorized Service Station. "Authorized TACP/THI service station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the TACP/THI Authorized service station for repair and returned to your home at no cost to you."

**In the Continental United States call:**



**In Hawaii contact:**

Toshiba Hawaii, Inc. 327 Kameke Street, Honolulu, Hawaii 96814 (808) 591-8377

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP or THI be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP or THI arising under this warranty or under any state, or law of the United States or any state thereof, is hereby limited to 90 days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.



### ATTENTION CANADIAN CONSUMERS:

Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty.

Products purchased in the U.S.A. and used in Canada are not covered by these warranties.

Products Purchased in Canada and used in the U.S.A. are not covered by these warranties.

REV. 09-01

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